

240/182 (prev. 6646-108N5)

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:	) Oroup Art Unit: 2643
Ronald A. KATZ	) ) Examiner: S. Woo
<b>Serial No.:</b> 09/317,807	RECEIVED
Filed: May 24, 1999	AUG 2 8 2001
For: MULTIPLE-FORMAT TELEPHONIC INTERFACE CONTROL SYSTEM	Technology Center 2600

# INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97(c)

Commissioner for Patents Washington, D.C. 20231

Sir:

To comply with the Applicant's duty, under 37 CFR § 1.56, the following information is brought to the attention of the Examiner with respect to this application.

As indicated before in prior information disclosure statements submitted in Applicant's related applications (U.S. Serial No. 08/306,456 and 08/306,751), certain patents that issued to the Applicant possibly are either parents of, or otherwise related to the present application, and furthermore have or have had involvement with litigation. After consultation with the Solicitor's Office at the U.S. Patent and Trademark Office, the Applicant has brought information with respect to the involved litigation to the Examiner's attention in the manner suggested by the Solicitor's Office. In that regard, several attachments (that include comments) and exhibits (identical copies)

I hereby certify that this document (along with any referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as First Class mail in an envelope addressed to the Commissioner for Patents, Washington, D.C., 20231.

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wik 17, 200/Sent by: Reena Kuyper

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have been provided as indicated below along with supplemental comments. Rather than to provide additional copies of these attachments and exhibits, Applicant directs the Examiner's attention to the copies provided before (see files for United States Application Serial Nos. 08/306,456 and 08/306,751). Of course, if the Examiner would like copies of everything for this application, she is requested to advise the undersigned.

#### **LIST OF ATTACHMENTS**

#### (Court Paper Lists and Attachments)

Note:

Summary lists of litigation papers filed and/or served in cases relating to certain patents are provided for each of the litigated cases, designated here as Suit I (First Data Resources (hereafter "FDR") v. West Interactive Corporation<sup>1</sup>, Suit II (RAKTL and MCI v. AT&T Corp. (hereafter, "AT&T"), Universal Card Service Corp. (hereafter "UCS"), and AT&T American Transtech, Inc. (hereafter "Transtech")<sup>2</sup>, and Suit III (RAKTL v. Microvoice)<sup>3</sup> (see Attachments A, B, and C, respectively). Generally, many such litigation papers were designated under a protective order and consequently, although Applicant's litigation counsel had access to them, Applicant's prosecution counsel (Mr. B.G. Nilsson and Ms. Reena Kuyper) were not approved for access. Under the terms of the protective order in Suit II, litigation counsel could not actively participate in prosecution matters.

It also is noteworthy that many of the papers were directed to procedural matters that are substantively unrelated to the patents, as: scheduling, generic form allegations, evidentiary issues, and so on.

Suits I and III were resolved by defendants taking a license. During Suit I, a voluminous quantity of prior art, that is, some 500 items (including single or plural related documents grouped together), were identified by the defendant. However, during pre-trial

<sup>&</sup>lt;sup>1</sup> See Attachment A, <u>Suit I</u> Summary of Papers Filed in Court or Served on Either Party in Suit (*First Data Resources v. West Interactive Corporation*).

<sup>&</sup>lt;sup>2</sup> See Attachment B, <u>Suit II</u> Summary of Papers Filed in Court or Served on Either Party in Suit (RAKTL and MCI Telecommunications Corporation (hereafter "MCI" now MCI Network Services ("MWNS")) v. AT&T Corp. (hereafter "AT&T"), AT&T Universal Card Service Corp. (hereafter "UCS") and AT&T American Transtech, Inc. (hereafter "Transtech").

<sup>&</sup>lt;sup>3</sup> See Attachment C, Suit III Summary of Papers Filed in Court or Served on Either Party in Suit (RAKTL v. Microvoice).

procedures defendant distilled the applied art to 59 separate items (including single or plural related documents.). The distilled art (59 items) is listed on the enclosed first set of forms PTO-1449 (Set I).<sup>4</sup> The voluminous quantity of art identified during litigation, excluding the 59 items (Set I), is listed on the second set of forms PTO-1449 (Supplemental I). The art listed on the third set of forms PTO-1449 (Supplemental II), was uncovered before and during prosecution of related applications and patents owned by the same assignee.<sup>5</sup>

In a continuing search performed as recently as September 28, 1994, the additional references, listed on the fourth set of forms PTO-1449 (in this case a single form, Supplemental III), were uncovered. Thus, all the known art has been listed on the four sets of Forms PTO-1449 (Set I, Supplemental I, II, and III) to provide a comprehensive record. Copies of all the cited documents (of others) that have been cited before are available in related applications (for example, U.S. Serial No. 08/306,751.) Other references that have also been considered before in Applicant's related cases are cited on the attached forms PTO-1449 (Supplemental IV). These references came to Applicant's attention as a result of reexamination of U.S. Patent No. 4,908,850 and during prosecution. These sets of Forms PTO-1449 have been considered by the Examiner in many of Applicant's other co-related applications. Copies from another application (U.S. Serial No. 08/306,456) indicating that they have been considered are also attached for the Examiner's convenience along with duplicate forms for the Examiner to indicate her signature.

Regarding Suit II, which proceeded to a stage far more advanced than attained by either of Suits I or III, numerous papers have addressed claim terms and proposed definitions for such claim terms. Indicating resolution of such terms, an attachment (see Attachment B1)

<sup>&</sup>lt;sup>4</sup> The patents to Katz (the Applicant) included in the 59 items, namely, U.S. Patent Nos. 4,792,968, 4,485,739 and 5,014,298 are parent patents, from which the present application ultimately claims priority. Also, Document No. 87/00375 corresponds to and claims priority from parent application U.S. Serial No. 06/753,299, which is parent to U.S. Patent No. 4,792,968.

<sup>&</sup>lt;sup>5</sup> With respect to EPC Publication 0 342 295, listed on Supplemental II, it should be noted that it corresponds to and claims priority from U.S. Patent No. 4,945,739.

was provided setting out claim terms as defined by the Court as a result of a Markman Hearing.<sup>6</sup>

Suit II was also resolved in December of last year by the defendants (AT&T and UCS) taking a license. The defendant Transtech has settled but Applicant does not have liberty to disclose the terms of the settlement agreement with Transtech. During the course of Suit II, as part of discovery, the defendants variously produced an enormous amount of documents (about 1 million or so as indicated by Applicant's litigation counsel) presumably of possible interest to various litigation issues such as infringement etc. These documents apparently include patents, non-patent publications, published articles, news releases, equipment specifications and so on. Most of the produced documents were marked "CONFIDENTIAL." The documents were produced under a Protective Order of the Court, specifying limited use of the documents and confidentiality for documents so designated. They were frequently mismarked. Accordingly, neither Applicant nor Applicant's prosecution counsel has had access to these documents. It is understood from Applicant's litigation counsel that perhaps only at the outset was the entire production quickly reviewed in a "flash cut" with a view to determine if any of the documents are pertinent from a prior art standpoint. A more comprehensive review of all the documents from that viewpoint was not undertaken as discovery relating to validity and infringement issues was deferred in part by the judge to follow claim interpretation to be resolved at a Markman Hearing.

As part of the discovery leading up to the Markman Hearing, the defendants filed their invalidity contentions that identified and purported to apply prior art to a select number of claims (20). Defendants also identified select prior art in their responses to Applicant's interrogatories. After the Markman hearing, litigation counsel analyzed the potential prior art provided by defendants and related materials of interest with respect to select claims in suit. However, those materials were generally designated as 'CONFIDENTIAL' under the protective order and were not available to Applicant's prosecution counsel for review.

Applicant's litigation counsel have attempted to clarify what information cited by defendants during the litigation could be provided to Applicant's prosecution counsel for use

<sup>&</sup>lt;sup>6</sup> A Markman Hearing occurred in Suit II, Ronald A. Katz Technology Licensing, L.P. and MCI Telecommunications Corp., Civil Action No. 97-4453 (USDC, ED PA) and Ruling was issued (See Attachment B2 and Exhibit BI).

in prosecution matters. Those discussions had resulted in an understanding by litigation counsel that patents and certain published information (as best ascertained by the litigation counsel) provided by the defendants may be used by Applicant in prosecution matters. Some of these documents remain unavailable to Applicant's prosecution counsel.

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Applicant's prosecution counsel, have briefly reviewed the U.S. patents and have provided brief explanations below in charts A, A1, and B with preliminary distinctions (see PTO Forms 1449, Supplemental V (cited by either AT&T or UCS or both only, Volume II), Supplemental VA (cited only by Transtech) and Supplemental VI (accumulated by Applicant from other sources, Volume II)).

Applicant's prosecution counsel has also reviewed published documents provided by the defendants (when stacked about 5 feet in height and cited in PTO Forms 1449, see Supplemental VII) and have provided brief explanations here. The set of forms PTO-1449 (Supplemental V, VA, VI, and VII) have been considered previously by the Examiner in Applicant's other application (U.S. Serial No. 08/306,456). These forms are also attached for the Examiner's convenience. Copies of those that have been considered are also provided here so the Examiner can initial the references to indicate consideration.

It should be noted that this stack of published documents includes duplicates and references that are clearly not pertinent to the Katz portfolio, for example, references reporting the Mexican earthquake, basketball etc. Also, many of the documents address financial or business considerations or are simply cryptic news stories taken for example from LEXIS-NEXIS service. Generally, the documents fall into subject categories such as private branch exchange (PBX) switches, voicemail components, ANI services per se, DNIS services per se, 800 and 900 service per se, ISDN operations, telephone billing and routing techniques, voice processing, and telephone technology generally. In reviewing the stack of published documents, none were located which were found to be pertinent to the present application or related applications generally. Accordingly, Applicant has not provided copies of all the references. However, copies of a select few to represent the nature of the citations were provided (see file for U.S. Serial No. 08/306,456, further discussed at page 72-73 here). In the event the Examiner would like copies of everything or other select items, the Examiner is respectfully requested to advise the undersigned.

Applicant's prosecution counsel have also reviewed other documents asserted by AT&T when adverse to the Applicant. These documents were released for review and forwarded to Applicant's prosecution counsel on January 11, 2001. The accompanying Forms PTO-1449 (designated as Supplemental VIII) provide a listing of documents that AT&T had possibly asserted as prior art when adverse to the Applicant. AT&T had indicated these documents are non-confidential, thereby allowing Applicant's prosecution counsel to access them. On reviewing these documents, Applicant's prosecution counsel do not believe any of them are of much interest to the claims of this application. Nonetheless, CHART C (pages 73-74) lists all the documents and indicates short comments relating to each. A copy of each of these documents has been provided before (see file for U.S. Serial No. 08/306,456) because they are representative of articles and publications available from Bell Labs. An additional document (copy attached) on AT&T's network communications that Applicant's prosecution counsel recently came across is also cited on another Form PTO-1449 (designated as Supplemental IX).

In another regard, with respect to the Suits, certain claim terms have been the subject of interrogatories and related responses along with other subjects as: claim support in specifications, priority dates, specification background comments, proposed language interpretations, document authorship, and other matters of fact.

Document requests have addressed: potentially infringing systems, factual aspects of the Parties and other subjects. In addition to scheduling matters, evidentiary questions and discovery, court papers also have addressed the Markman Hearing, which is treated below and in certain attachments.

Invalidity contentions (see Exhibits AI (by West), BII (by AT&T), and BIII (by UCS)) also were expressed during the pretrial phase of Suit I and Suit II. Although the defendant Transtech also expressed its invalidity contentions, it had denied Applicant permission to disclose them to the Patent Office until a Judge's ruling issued during the first week of January, 2001. At any rate, those contentions in Suit II (RAKTL and MCI v. AT&T Corp., et al.), however, were based on a construction of the claims being advanced by defendants at the time. That proposed claim construction was largely not the one ultimately adopted by the Court in its Markman decision. Defendants were not required

to update those contentions based on the Court's Markman ruling before Suit II was settled. Applicant and MCI do not agree with the rejected contentions of defendants, as set forth in their responsive contentions.

Further related to the Markman Hearing (see Suit II), several demonstrative exhibits were presented. Such demonstrative exhibits from the Plaintiff were provided as a teaching tool and showed claims and drawings from the patents along with background information. Defendants' demonstrative exhibits addressed: telephone systems, patent drawings, drawings from references showing elements and prosecution history comments.

The following attachments and exhibits including those identified above and additional ones summarize the substance of Suits I, II, and III that remotely may be of possible interest to patent prosecution.

#### RE SUIT NO. I (FDR v. West Interactive Corporation)

Attachments (see Vol. I)	<u>Identification</u>
Attachment A. (Suit No. I)	List No. I – Summary of Court Papers of Suit No. I <sup>7</sup>
Attachment A2.	Summary of Nilsson Deposition
Attachment A3.	Summary of Nilsson Declaration
Attachment A4.	Summary of Rudolph Declaration
Exhibit (see Vol. I)	Identification
Exhibit Al	Contentions by West Interactive Corporation

# RE SUIT NO. II (RAKTL and MCI v. AT&T)

<sup>&</sup>lt;sup>7</sup> See Attachment A, Suit I Summary of Papers Filed in Court or Served on Either Party in Suit.

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Attachments (see Vol. I)	Identification
Attachment B. (Suit No. II)	List No. II – Summary of Court Papers of Suit No. II <sup>8</sup>
Attachment B1.	from Markman Conclusions of Law – Defined Claim Terms Note: An abstract of the claim terms defined by the court in the Markman Ruling.
Attachment B2.	from Markman Conclusions of Law (Court Ruling) - Expanded Table of Contents  Note: The Court's Table of Contents has been expanded with italicized comments to provide an abstract of the Conclusions of Law treating defendants' contentions and related rulings by the Court.
Attachments B3.	Two Letters from Litigation Counsel
Attachment B4A.	Report by Plaintiffs' Expert (Mr. Sanford Morganstein) Note: An abstract was provided.
Attachment B4B.	Rebuttal Report by Plaintiffs' Expert (Mr. Sanford Morganstein) Note: An abstract was provided.
Attachment B5.	Report by Defendants' Expert (Dr. Larky) – Deposition Note: An abstract was provided.
Attachment B6.	Report of Defendants' Expert - Dr. Peter K. Bohacek Note: An abstract of the report is printed.
Attachment B7.	Defendants' Redacted Pre-Markman Hearing Brief On Primary Issues Note: The Table of Contents has been expanded, abstracting the substance of the Brief in italics.
Attachment B8.	Plaintiffs' Markman Hearing Brief Note: Table of Contents and a comment on the Brief.
Attachment B9.	Defendants' Redacted Pre-Markman Hearing Brief on Secondary Issues

Note: The Brief has been abstracted to indicate concisely Defendants' arguments and the related

judicial determinations by the Court.

<sup>&</sup>lt;sup>8</sup> See Attachment B, Suit II Summary of Papers Filed in Court or Served on Either Party in Suit.

<u>Attachments</u>

(see Vol. I)

**Identification** 

Attachment B10.

Transcript of Defendants' Expert - Dr. Larky

Note: An abstract was provided.

Attachment B11.

Transcript of Plaintiffs' Expert (Mr. Sanford Morganstein) - Deposition

Note: An abstract was provided.

Attachment B12.

Transcript of Mr. Katz – Depositions

Note: Locations in the transcripts are identified for testimony relating to individual patents.

**Exhibits** 

**Identification** 

Exhibit BI.

Markman Conclusions of Law

(see Vol. I)

Note: Full text of the Court's Ruling.

Exhibit BII.

(see Vol. II)

Contentions by AT&T

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Exhibit BIII.

Contentions by UCS

(see Vol. II)

Exhibit BIV. (see Vol. II)

Protective Order 9/29/97

Exhibit BV (see Vol. II)

U.S. Patent No. 4,401,856 (Curtin et al.)

RE SUIT NO. III (RAKTL v. Microvoice)

**Attachments** 

Identification

(see Vol. II)

Attachment C. (Suit No. III)

List No. III - Summary of Court Papers of Suit No. III9

<sup>&</sup>lt;sup>9</sup> See Attachment C, Suit III Summary of Papers Filed in Court or Served on Either Party in Suit.

<u>Attachments</u> <u>Identification</u>

(see Vol. II)

Attachment C1.

Letter from Litigation Counsel

FORMS PTO-1449

Forms PTO-1449 Identification

(see Vol. II)

Supplemental V. and VII. Forms PTO-1449 listing art cited by Defendants (AT&T, Transtech,

and UCS)

Supplemental VA. Forms PTO-1449 listing art cited by Defendants (Transtech)

Supplemental VI. Forms PTO-1449 listing art accumulated by Applicant (through other

sources)

Suit III was settled in October, 1999, after only preliminary activity. Specifically, claims were selected for assertion and accused operations were identified. However, the pretrial procedures did not reach a stage of substantially addressing the patents. Accordingly, none of the papers identified in Attachment C are being provided as pertinent. To that end, see letter from litigation counsel (*see* Attachment C1). Distinct from the attachments as identified above, some further comments are appropriate in relation to each of the suits as treated below.

#### **COMMENTS ON THE VARIOUS SUITS**

Suit No. I. First Data Resources Inc. (then owner of the patents) v. West Interactive Corporation.

In December of 1993, Suit I was resolved when the defendant took a license to the patents. During Suit I, the defendant cited a voluminous amount of art and, in particular, asserted some 50 references. Applicant has already brought all of those references to the Examiner's attention (in Applicant's U.S. Serial No. 08/306,456).

Certain documents listed in the Suit I summary were designated under a protective order or are otherwise not available to Applicant for review or comment. Nevertheless, the papers appear to

be completely irrelevant to the issues of unenforceability, invalidity, and so on. The Suit I summary (Attachment A) was provided with the belief that the Examiner will request a copy of any document listed that may appear to be of interest. In the Suit I summary, documents of possible interest (designated by letters "L," "M," or "I") are segregated from others that are completely irrelevant. To assist the Examiner, Applicant's prosecution counsel have carefully reviewed and summarized the declarations by plaintiff's expert, Mr. Rudolph, and Applicant's counsel, Mr. Nilsson, as well as a transcript of Applicant's deposition. *See* Attachments A2, A3, and A4. Also, Applicant's prosecution counsel has provided a copy of the defendants' invalidity contentions.

<u>Suit No. II.</u> RAKTL (the present owner of the patents and co-plaintiff) and MCI

Telecommunications Corporation (licensee and co-plaintiff) v. AT&T

As indicated above, certain of Applicant's patents were the subject of litigation between the parties identified above. Litigation counsel has interacted with the defendants in Suit II. In that regard, Applicant's prosecution counsel has not been privy to much of the litigation communication, as that which was designated under a protective order (Exhibit BIV). *See* letters (Attachment B3) from Applicant's litigation counsel. Prosecution counsel have studied select communications between the parties in suit, not designated confidential, to determine if they appear to address issues of unenforceability, invalidity, etc. Prosecution counsel have created a Suit II Summary <sup>10</sup> listing papers filed in court and/or served on either party involved in the suit. The Suit II Summary may exclude certain correspondence between litigation counsel for plaintiffs and a Special Master assigned to the case. That correspondence was not believed to be of interest to the Examiner as it relates to the scope of discovery. In the event the Examiner would like to see copies of that correspondence, please advise.

Rulings (Court's Conclusions of Law Regarding Patent Claim Construction (hereafter CCL)), in a Markman hearing relating to Suit II should be noted. Provided before (with respect to United States Serial No. 08/306,751 and Serial No. 08/306,456) is a copy of the entire court ruling (see Exhibit BI) followed by an expanded Table of Contents (see Attachment B2). That is, for the Examiner's convenience, Applicant's prosecution counsel have expanded the Court's Table of

<sup>&</sup>lt;sup>10</sup> See Attachment B, Suit II Summary of Papers Filed in Court or Served on Either Party in Suit.

Contents to indicate and summarize the defendants' arguments and the Court's ruling on each argument.

The art that defendants cited or asserted (in particular, see attached copies of invalidity contentions, by AT&T and UCS (Exhibits BII, and BIII) is indicated on the attached Forms PTO-1449 (Supplemental V). Other art cited only by the defendant Transtech is indicated on the attached Forms PTO-1449 (Supplemental VA). Other art that may have come to light from other sources, such as cited by Examiners in related applications also is cited on the attached Forms PTO-1449 (Supplemental VI). In addition, Applicant has provided copies of invalidity contentions by various defendants (AT&T and UCS only) in the event that the Examiner should wish to consider the arguments urged by the defendants (See Attachments BII (contentions by AT&T), and BIII (contentions by UCS)). Applicant has already provided copies of many of the foreign patents and articles in Supplemental V and VI in related cases (for example, Serial No. 08/306,751), and is not providing copies herewith so as to not provide excessively burdensome papers. Copies of the documents cited in Supplemental VA and VII are not being provided at this point because they are largely not of interest. The undersigned assumes that copies of the patents are easily available to the Examiner on-line. If the Examiner would like copies of the patents, please advise the undersigned. Also, the Examiner should note that not all the references cited by the defendants constitute prior art. Filing and issue dates for the patents and publication dates of the articles and foreign patents are provided to assist the Examiner with making an independent determination of which references (if any) constitute prior art.

Although numerous issues regarding the construction of the claims arose during the litigation, those, the parties believed were most important with respect to a selected set of 20 claims were the subject of the Markman hearing. Consequently, the Markman ruling is a concise summary of plaintiffs' and defendants' significant arguments that may have also been urged in the numerous briefs and other papers filed during the entire period of the litigation. Nonetheless, Applicant's prosecution counsel also has provided abstracts prepared on the report filed by plaintiffs' expert (Mr. Sanford Morganstein, Attachment B4A) and defendants' experts (Dr. Larky, Attachment B5, and Dr. Bohacek, Attachment B6) as well as rebuttal by plaintiffs' expert (Attachment B4B).

Also, prosecution counsel has provided expanded tables of contents for various briefs (See Attachments B2 and B7) and comments and abstracts on other briefs (See Attachments B8 and B9).

The comments are italicized. Also, abstracts of various deposition transcripts are provided. (See Attachments B10 (Larky), B11 (Morganstein), B12 (Katz)). The Examiner is requested to indicate any particular document or area of interest in depth. If available, Applicant's prosecution counsel will provide copies.

As indicated above, Applicant's prosecution counsel received a substantial number of U.S. Patents variously identified by Defendants (AT&T and UCS only) in Suit II to Applicant's litigation counsel, for example, in response to document demands. These documents are identified in Supplemental V.

As a further matter, it is Applicant's understanding that any positions asserted during litigation that may be construed by others as unclear in view of positions urged during prosecution should be clarified. In the course of Suit II, the term "DNIS" was treated, as in its functions related to the provision of called number identification data, for example, as recited in the parent patent 5,561,707, claim 103. The various comments and contentions asserted with respect to the term "DNIS" were resolved by a ruling of the Court. Specifically, some comments are deemed appropriate with regard to the CCL (Court's Conclusions of Law).

Preliminarily, consider some quotations and comments relating to DNIS that are taken from the CCL. First, an issue arose as to whether or not signals providing the DNIS capability are restricted to a specific number of digits. In that regard, the Court stated:

"However, the mere reference to 'called number' does not restrict 'called number identification data' to a certain number of digits, nor is there reason to restrict the terms 'DNIS' and 'called number identification data' to the examples provided by Katz in the specifications." (CCL, pp. 56)

A somewhat related contention by defendants urged that the "DNIS" capability specified in the Katz claims must indicate a full or complete dialed number. In that regard, after quoting from the '707 Katz patent, the Court stated:

"These passages confirm that DNIS or called number identification data must only be a signal that identifies the called number and need not be only the seven or ten digit number." (CCL, pp. 57)

In another portion of its opinion, the Court considered Applicant's discussion of patents discussing direct inward dialing, or DID, during prosecution of certain parent patents hereto. During prosecution, for example, of U.S. patent ['707], Applicant states, referring to

the DID service, that "[T]he operation was quite different from using DNIS signals to select formats". (Amendment 8/31/95, '707 Patent filewrapper). The Court specifically addressed Applicant's discussion of DID in connection with Matthews, '012, Matthews, '906, Vij, '682 in prosecution of other related patents, the Court stated:

"These statements indicate that Katz distinguished his inventions from other patents on the basis of the comparative functions of the systems; the systems in the other patents use signals to route telephone calls, not select a format from a group of formats or to store data associated with those signals. However, Katz never informed the PTO that the same numbers that other systems used to route calls could not be used to identify the called number and select a format. In short, it is not clear from Katz' statements, contrary, to the defendants' contention, that 'internal routing numbers' to the extent they can identify the called number, could not be included in the meaning of called number identification data or DNIS, as used in the Katz patents.

Based on the foregoing, the Court concludes that the terms 'DNIS' and 'called number identification data' are synonymous and mean: a signal or data that identifies the number called."

To focus on the "comparative functions" as mentioned by the Court, some further clarification of the DNIS capability or service for the record is deemed appropriate. In that regard, the comments below also are pertinent to the testimony of Applicant's Expert, Sanford J.

Morganstein. The comparative functions of the DNIS capability (versus DID service), which offer distinct benefits in Applicant's combinations, include: the use of non-specialized trunks (as in each trunk does not have to contain lines corresponding to specific DID numbers), the flexibility of number designation, the availability of flexible line allocation and the operation of supplying DNIS by addressing the carrier's DNIS database (for example, one or more memory sources located at one or more interexchange carrier locations), and the use made of signals from the network. Thus, in accordance with Applicant's prior position during prosecution, the recitation of DNIS capability in the Katz patents is deemed distinct from DID service in the contexts as claimed because of the reasons set forth above. Most obviously, DID service uses signals received over trunks devoted to specific lines within the network (a block of DID numbers) in a manner distinct from the use of DNIS signals in the Katz inventions as claimed (for example, to select a format).

Also, relating to the DNIS capability and DID service, some art was identified in Suit II, which merits comment. Specifically, for example, attention is directed to U.S. Patent 4,401,856, Curtin et al., "Control System for Handling Direct Inward Dialing Telephone Calls" (copy attached here for convenience, Exhibit BV). Although the Curtin et al. patent, relating to DID, is not a significant addition to the art of record, it is of interest to and merits mention with regard to the above considerations. A pertinent passage from the Curtin et al. patent is as follows:

"Another possible use of the control system for handling DID lines of the present invention is to assist individuals in identifying incoming callers. Individuals can rent a block of DID numbers from the telephone company (for example, 10 numbers but still only one access line) and then use the control system so as to enable the individual user to be able to identify the incoming caller. For example, people in business have special groups of clients to whom they desire to provide special attention. By giving any particular client a particular DID number which is unpublished, when the control system identifies the particular DID number being called, the telephone user then knows which client is calling and the individual user can act accordingly. While in accordance with the preferred embodiment of the present invention, as disclosed herein, it is indicated that the last three digits of the called DID number is displayed, it is possible that the control system could display a different number of digits or the actual name of the particular client or subscriber associated with the particular DID number." (claim 3, line 41+)

Suit No. III. RAKTL (the present owner of the patents and plaintiff) v. Microvoice Inc.

Certain patents were the subject of litigation between the parties identified above, resolved by a consent judgment and license agreement entered in October, 1999. Prosecution counsel for Applicant has provided a Suit III Summary (see Attachment C) of all documents filed in Court or served to either party in suit. Again, any prior art identified by defendant is included in the attached Forms PTO-1449.

# DISCUSSION OF DOCUMENTS LISTED IN SUPPLEMENTAL V, VA, VI, & VII

#### **CHART A (SUPPLEMENTAL V and VI)**

U.S. Patent No.	Inventor	Issue Date/	Comments
		Filing Date	
3,787,632 (Supplemental V)	Male et al.	01/22/74/ 06/28/71	An automatic number identification system for identifying the calling station of a branch telephone exchange and transferring the information via the normal talking path connection through the central office is described.
3,940,569 (Supplemental V)	Schonbrun et al.	02/24/76/ 08/08/73	Toll call restriction is based on a binary counting of the dial pulses of the called number.
3,987,252 (Supplemental V)	Vicari	10/19/76/ 06/27/75	Computer controlled concentrator to reduce the number of trunk lines for serving subscribers. Operators can answer any incoming call (any subscriber line) to take a message or give a message. Calls are diverted to "free" operator position. The patent describes an early form of "call center" with call distributions.
4,068,099 (Supplemental V)	Mikkola et al.	01/10/78/ 05/21/76	A system for multiplexing (time division) calls for special service (e.g. news, weather, etc. by recorded message). Callers are multiplexed for receiving service information.
4,087,638 (Supplemental V)	Hayes et al.	05/02/78/ 10/01/76	A DTMF generator uses a dual oscillator (digital waveform synthesizer) to produce two output sine waves and is selectively timed to provide DTMF signals along with "ANI" signals (4 or 8 digits) that are inserted at the outset of operation.
4,090,034 (Supplemental V)	Moylan	05/16/78/ 06/09/77	PBX billing system based on ANI, as for hotel use to bill guests.
4,160,129 (Supplemental V)	Peyser	07/03/79/ 05/03/77	Long distance routing control system with priority selection of lines and a connection through the selected lines that does not pass through the central control that selects the lines. Satellite switching units are used. Data for billing is recorded.

U.S. Patent No.	Inventor	Issue Date/	Comments
		Filing Date	
4,192,972 (Supplemental V)	Bertoglio et al.	03/11/80/ 11/28/78	A pay-telephone station that handles local and long-distance calls includes a microcomputer which, at the end of the conversation or under certain circumstances, selectively collects predeposited payment items of different denominations calculated
			according to the debt incurred and to the denominations available to optimize the refunding of any excess to a user. The microcomputer also determines, upon the start of a call, whether the initial deposit suffices for at least the basic charge on the type of connection (local or trunk call) sought to be set up and, if it does not, invites the user to make an additional deposit before aborting the call. The remaining credit balance is continuously signaled to the caller on a display unit and, even before actual collection, is diminished according to the applicable rate in response to each metering pulse arriving from the exchange.
4,221,933 (Supplemental V)	Cornell et al.	09/09/80/ 12/21/78	Centralized voice message system uses digital memory to store messages. ESS trunk circuits are incorporated with interface units to store and retrieve, using ANI to identify callers (col. 4, In. 1).
4,255,619 (Supplemental V)	Saito	03/10/81/ 09/05/79	Telephonic reservations system uses a data transmitter 41 coupled to a telephone to interface the reservations system. See col. 9 for script. As related to Katz systems, the Saito system appears to be no more than a basic reservations system using a special data transmitter with a keypad.
4,360,875 (Supplemental V)	Behnke	11/23/82/ 02/23/81	Special purpose terminals (keyboards) interface a central computer to arrange rides on vehicles (private cars) which have drivers planning a trip.
4,401,856 (Supplemental V)	Curtin	08/30/83/ 05/13/81	Operating with DID lines, the last digits of the called number are decoded and displayed (col. 10, ln. 12). Also, display could be of a particular client as disclosed (col. 3, ln. 59).
4,428,296 (Supplemental V)	Scheuchzer et al.	01/31/84/ 08/04/81	A railroad track relaying train.
4,445,001 (Supplemental V)	Bertoglio	04/24/84/ 03/02/82	Subscribers are equipped with structure to interrogate an identification unit to reveal a calling number, which is provided as a signal to activate a display at the equipped subscriber location.

U.S. Patent No.	Inventor	Issue Date/ Filing Date	Comments
4,517,412 (Supplemental V)	Newkirk et al.	05/14/85/ 11/23/83	Pay phones are equipped with major credit card reader units to read cards, communicate through a satellite station to a central processor for verification and perform network management plus credit card
4,518,824 (Supplemental V)	Mondardini	05/21/85/ 06/07/82	billing.  A public telephone method and apparatus is described wherein the user's personal telephone number and a personal dialing code are used to effect debiting charges.
4,549,291 (Supplemental V) 4,585,903	Renoulin et al. Schiller et al.	10/22/85/ 09/09/83 04/29/86/	A hybrid local communication network, operating both in circuit and packet modes.  A cordless telephone.
(Supplemental V) 4,591,665 (Supplemental V)	Foster et al.	06/25/84 05/27/86/ 07/12/83	To trace absence calls, a calling number is stored in a memory associated with the called number and is displayed at the called
4,600,809 (Supplemental V)	Tatsumi et al.	07/15/86/ 05/24/84	number on request by entry of a post call code.  A wireless system with DTMF decoding to take messages for an unattended telephone and indicate the calling number.
4,611,096 (Supplemental V)	Asmuth et al.	09/09/86/ 12/01/83	Local telephone office capability to either "hand off" or obtain "assist" in giving service as CTI, e.g. airline telephone service. See "Announcements and Digit Collection" (col. 7); also, "Assist and Handoff" (col. 9).
4,625,081 (Supplemental V)	Lotito et al.	11/25/86/ 11/30/82	Messages are stored in baskets that are associated with individual telephone lines and received with PIN entry and little operator involvement. Selective "answering" per number of rings, time of day, etc. (col. 150, ln. 65). Interface operation (col. 151). Re service options, see col. 158, ln. 1. Re message delivery, see col. 169, ln. 66.
4,640,991 (Supplemental V)	Matthews et al	02/03/87/ 09/29/82	(also see Matthews '486) Voice mail system with: controlled limited access, digital or public network link, etc. DID (col. 69, ln. 25, see Matthews '486). Receive only (RO) message address is used.
4,672,660 (Supplemental V)	Curtin	06/09/87/ 06/07/85	A method and system for identifying who is placing a call to a telephone prior to answering. Also, discloses DID.
4,685,127 (Supplemental V)	Miller et al.	08/04/87/ 10/01/85	Uses ANI to identify callers on long distance calls and thereby select the chosen long distance carrier for the call.

U.S. Patent No.	Inventor	Issue Date/	Comments
		Filing Date	
4,747,124 (Supplemental V)	Ladd	05/24/88/ 05/06/85	A computer unit with speech capability is coupled in front of a PBX to expand its capability. DTMF signals from caller are decoded to control PBX.
4,759,056 (Supplemental V)	Akiyama	07/19/88/ 11/09/84	A communication system offering specific services to specific persons has a portable memory device with a record of personal information such as the bearer's identification number, class of service, personal date etc. In making a call, the bearer of the memory device puts it on a communication terminal device and the terminal device reads out the personal information, which is transferred to a data processor such as a central processor in exchange so that a service specific to the calling person is rendered.
4,761,808 (Supplemental V)	Howard	08/02/88/ 03/18/87	As for controlling access to long distance calls, a caller uses an I.D. number (alphabetic) including a time code and an address code. The time code is changed in an autodialer to limit access.
4,791,666 (Supplemental V)	Cobb et al.	12/13/88/ 06/19/87	A method and apparatus for connecting on electromechanical telephone central office having a step-by-step or cross bar type switching equipment to a remotely located automatic interrupt message system.
4,797,818 (Supplemental V)	Cotter	01/10/89/ 03/26/87	A pizza chain ties all parlors to a central computer, using modems at the central and printers at the parlors. Orders are taken at the central and on the basis of area code, zip code, exchange number or street address, a parlor is selected. The order is printed. Disclosed embodiment uses home address, per "Informix" database. Calls go to operator at CRT, however, voice recognition etc. is mentioned (col. 4, ln. 52). Also "sequential transaction numbers" are assigned for each store (col. 4, ln. 60).

U.S. Patent No.	Inventor	Issue Date/ Filing Date	Comments
4,805,207 (Supplemental V)	McNutt et al.	02/14/89/ 09/09/85	This patent relates to a system that takes and retrieves telephone messages. Their system allows one or more operators to receive calls to a called party who is not able to answer the phone. Information specific to the called party is presented to the operator in response to conventional data from a PBX indicating the called party, and optionally the calling party in some cases. The operator may take a message for the called party by typing the message on a terminal, which is stored. Messages that are stored may be retrieved through a remote station.
4,878,240 (Supplemental V)	Lin et al.	10/31/89/ 01/25/88	Enhanced telephone services are provided through a multi-service telephone switching system that contains a programmable adjunct connected to a telephone switching system. Different service scripts can be invoked to provide corresponding different enhanced services to the subscriber depending upon the specific condition for which the call was routed to the adjunct and/or a specific event occurring during the call.
4,893,325 (Supplemental V)	Pankonen et al.	01/09/90/ 09/23/88	A telephone call distribution system for handling a special type call, the call containing at least automatic number identification (ANI) data.
4,896,346 (Supplemental V)	Belfield et al.	01/23/90/ 11/21/88	A password controlled switching system and method of operation for enrolling and storing passwords identifying lines and trunks of the switching system that are denied access by other lines. The system is operable upon a watch of a calling party command with an enrolled and stored password for selectively interconnecting the calling party via a line with ones of the restricted lines and trunks.
4,899,373 (Supplemental V)	Lee et al.	02/06/90/ 11/28/86	This patent relates to a method and apparatus for providing personalized telephone subscriber features at remote locations. A nationally accessible data base system stores features data in association with personal identification numbers.
4,908,852 (Supplemental V)	Hird et al.	03/13/90/ 01/23/89	A telephone system and method of operation which use a microprocessor control system (10), a speech generator (34) and speech memory (46) to automatically place calls without the need of a live operator.

U.S. Patent No.	Inventor	Issue Date/ Filing Date	Comments
4,922,519 (Supplemental V)	Daudelin	05/01/90/ 09/30/88	The class of an operator assistance call is identified in order to reduce the operator work time for servicing such a call. A customer dials 0 or dials 0 plus a directory number and is connected to a program controlled operator assistance system or switch. The switch initially connects the calling customer to a voice processing unit and prompts the customer to speak a command or key a command code. The command or command code is recognized and used to direct the flow of the control program to selectively defer a connection to an operator position. For example, for person-to-person calls, the operator position is only connected after the called customer terminal answers.
4,933,965 (Supplemental V)	Hird	06/12/90/ 01/23/89	A telephone system and method of operation are described which use a microprocessor control system, a speech generator and speech memory to interact with a calling party placing a long distance phone call. The telephone determines the validity of the billing account number and, if the billing account number is valid, a communication path is established through a telephone line interface. Valid billing account numbers are stored in the telephone for a predetermined period of time. The stored numbers are polled prior to the validation process to determine if an entered number has already been validated. In this manner, a calling party making multiple calls with the same billing account number need only wait for his account number to be verified once.
4,989,234 (Supplemental V)	Schakowsky et al.	01/29/91/ 04/11/89	A system for capturing telephonic mass responses that automatically receives calls of recipients crossing their telephone sets to respond to the broadcast promotion, electronically capturing the subscriber telephone numbers of the telephone sets through which these calls are made, and automatically confirming to all callers while on line during these calls that these calls have been received.
5,036,535 (Supplemental V)	Gechter et al.	07/30/91/ 11/27/89	An automatic call distributing system for automatically distributing telephone calls placed over a network to one of a plurality of agent stations connected to the network.

U.S. Patent No.	Inventor	Issue Date/ Filing Date	Comments
5,199,062 (Supplemental V)	Von Meister et al.	03/30/93/ 11/08/91	A telephone communication system with a telephone switch having a plurality of incoming and outgoing lines for switching calls, an audio response unit, and a central processing unit for executing a stored program sequence based upon the audio communication received by the voice response unit to control both the voice response unit and the telephone switch. (later filed patent)
5,222,120 (Supplemental V)	McLeod et al.	06/22/93/ 04/23/90	A long distance telephone switching system that provides various enhanced subscriber services, such as on audio news and information service etc.  (later filed patent)
5,299,260 (Supplemental V)	Shaio	03/29/94/ 07/29/93	A telephone call handling system. (later filed patent - not prior art)
5,303,298 (Supplemental V)	Morganstein	04/12/94/ 09/14/92	An automated attendant call processor. (later filed patent)
5,303,299 (Supplemental V)	Hunt et al.	04/12/94/ 06/22/92	A method for continuous recognition of alphanumeric strings spoken over a telephone network. (later filed patent)
5,354,069 (Supplemental V)	Guttman et al.	10/11/94/ 01/21/92	A lottery simulation system. (later filed patent)
5,418,844 (Supplemental V)	Morrisey et al.	05/23/95/ 04/17/92	An automatic access to information service provider. (later filed patent)

#### Foreign Patents:

Patent No.	Country	Public. Date	Comments
0 217 308 B1	EPC	4/1987	An ANI facility is used to order pay-per-view
(Supplemental V)			programs.
0 249 795 B1	EPC	12/1987	(Specification in German)
(Supplemental V)			Method for PBX use, with computer
			controlling access with regard to time and
			per a code as assigned to callers. Does not
			appear to be pertinent.
2 575 016	France	07/1986	(Specification in French)
(Supplemental V)			A telephone communication system
			involving deposit of money (see Fig. 1).
WO 82/02132	PCT	06/1982	In a PBX installation, individual stations can
(Supplemental V)			transfer to another station assisted by a bank
			of telephone answering machines.

#### **Other Documents:**

Title of Article/Publication	Date	Comment
Dial Info Articles (various articles with	mid-1980's	Some hundred pages of cryptic "stories"
various dates) (R0016101-R0016188)		reporting telephonic related events,
(Supplemental V)		apparently from internet searching and dated
		in the mid-eighties.
Svigals, J., "Security Method For Remote	May 1981	An encryption technique is disclosed for
Telephone Banking," IBM Technical	-	secure numerical entries by telephone.
Disclosure Bulletin, Vol. 23, No. 12, May		
1981, pp. 5306-5307 (pb424)		
(Supplemental V)		
AT&T Conversant Voice Response Systems	January 1988	Describes the "Conversant" system and
Historical Overview, January 1988 (FD		various general uses, e.g. reservations and
023585-FD023596)		ordering.
(Supplemental V)		_
"All About Automated Attendant Systems,"	March 1987	An early use of DID with rotary operation to
Datapro Research Corporation, March		take an automated response.
1987 (SM 1000682-SM 1000691)		
(Supplemental V)		
"New Product - Dytel's Automated	March-April	Dytel's unit interfaces received calls to a PBX
Switchboard Attendant," reprinted from	1984	Uses DID line allocation.
Business Communications Review, March-		
April 1984, pp. 39-41 (SM10006976-		
SM1000699)		
(Supplemental V)		
Arbogast, James G. et al., "Home Diabetes	1984	Telephonic access to a database as to
Monitoring Through Touch-Tone		monitor blood sugars. Does not appear to
Computer Data Entry and Voice		be pertinent.
Synthesizer Response," Annual		
Symposium on Computer Applications in		
Medical Care 8th Care Proceedings - Eighth		
Annual Symposium on Computer		
Applications in Medical Care, 1984 (MMI		
020731)		
(Supplemental V)		
Perdue, Robert J., et al., "AT&T Voice	September/	"Conversant" is described in voice response
Processing System Architectures," AT&T	October 1990	applications as for voice mail use.
Technical Journal, September/October		
1990, pp. 52-60 (MMI 024142-MMI		
024151)		
(Supplemental V)		
Sable, E.G., et al., "AT&T Network	March 15, 1987	The 1984 introduction of Direct Services
Services Architecture Capabilities,		Dialing Capabilities (DSDC) Architecture to
Administration and Performance," AT&T		accommodate 800 service and caller
Technical Papers, International Switching		interface operations. At best, offers historical
Symposium-ISS '87, AT&T Network		background.
Systems, March 15, 1987		
(Supplemental V)		
"The Stored Program Controlled Network"	September	A number of articles from the Journal were
The Bell System Technical Journal,	1982	provided as follows.

Title of Article/Publication	<u>Date</u>	Comment
September 1982		
(Supplemental V)		(1) Prologue, pp. 1575
		Stored Programmed Controlled (SPC)
		network structure accommodates computer
		interface with callers. Only of historical
		significance.
		(2) Overview, pp. 1579
		In accordance with Stored Programmed
		Controlled network operation, considerable
		flexibility is described in signaling and
		network intelligence. Apart from historical
		significance, not pertinent.
		(3) Generic Network Plan, pp. 1589
		A model for a stored program controlled
		network accommodates network capabilities
		with caller control. No significance, other
		than historical, is apparent.
		(4) Routing of Direct-Signaling Messages,
		pp. 1599
		A form of "direct signaling" enhances stored
		program control operations with improved
		routing and flow control procedures. Only
		historical significance is perceived.
		(5) Calling Card Service-Overall
		Description, pp. 1655
		To accommodate credit card, collect and
		bill-to-third-number service, a system is
		described accommodating DTMF input from
		callers.
		(6) Calling Card Service-TSPS Hardware,
		pp. 1675
		FF. 131
		The Traffic Service Position System (TSPS)
		accommodates caller-computer interface
		with voice cues to callers and DTMF
		signaling from callers. At best, appears to
		have historical significance.
		(7) Calling Card Service, pp. 1715

Title of Article/Publication	Date	Comment
		New telephone systems accommodate
		enhanced computer telephonic interface as
		for credit card use, billing and so on. At
		best, of historical interest.
		(8) 800 Service Using SPC Network
	1	Capability, pp. 1737
		Expanded 800 service accommodates
		increased use, improved routing and call
		processing. Again, of historical interest.
		(0) 200 Samilar Haine SBC Naturali
		(9) 800 Service Using SPC Network
		Capability-Network Implementation, pp.
		1745
		Expanded 800 service accommodates
		effective network capability, thereby
		affording improved caller services.
		(10) Data Base Administration System-
		Overall Description, pp. 1759
		G . II L(CDC)
		Stored Program Controlled (SPC) network
		operations afford improved data capabilities
		in the realm of customer interfaces. Again,
	:	of historical interest.
		(11) Data Base Administration System-
		Architecture, pp. 1779
		An improved data base administration
		system accommodates considerable
		improvement in computer-telephone
		interface. Of historical interest only.
		(12) Acronyms and Abbreviations, pp. 1799
		A -t
		A glossary of acronyms and abbreviations is
		set forth; however, with very little in the way
		of definition. Accordingly, no pertinence is
The World's Telephones a Statistical	1981	noted. Statistical information on the historical use of
The World's Telephones, a Statistical Compilation as of January 1980, AT&T	1301	telephones.
Long Lines, 1981		telephones.
(Supplemental V)		
Engineering and Operations in the Bell	1983	The table of contents for the book involving
System, AT&T Bell Laboratories, 1983	1 . 503	some 800 pages, was apparently provided
(Supplemental V)		with no specific indications. Apparently, the
(Supplemental 1)		book describes the history, substance, and
	<u> </u>	2001. depended the insterig babbanice, and

Title of Article/Publication	Date	Comment
		operations of the Bell System. No real
		pertinence found.
Joel, A.E., "A History of Engineering and Science in the Bell System, Switching Technology (1925-1975)," Bell Telephone Laboratories, 1982 (Supplemental V)	1982	Only the contents of a book (some 600 pages) was identified. Based on the contents, the book describes certain switching and routing operations of the system along with historical considerations. No real pertinence was identified by defendants nor is seen by prosecution counsel.
"ISDN - Proceedings of the conference	November	Southern Bells ISDN system accommodates
held in San Francisco, November 1986," OnLine, New York: London (Supplemental V)	1986	a variety of services as automatic call back, call return, call block, call tracing and so on, none of which appear to be pertinent.
Raack, G.A., et al., "Customer Control of Network Services," IEEE Communications Magazine, October 1984 (A21717089) also ISS 84, Florence Italy, May 1984 (Supplemental V)	May 1984	Telephone company customers are enabled a number of services by stored program operations under their control.
Soderberg, J.H., "Machines at your Fingertips," Bell Laboratories Record, July 1969 (A21717175) (Supplemental V)	July 1969	Early forms of CIT operations are described involving voice cues and DTMF signaling.
Gawrys, G.W. et al., "A New Protocol for Call Handling Functions for the SPC Network," Globecrom '82 Conference Record, November/December 1982 (Supplemental V)	November/ December 1982	Direct Services Dialing (DSD) supports expanded services. However, does not appear to be relevant to the claims.
Buss, C.M., "Tuning the Human/Machine Interface for AT&T Advanced 800 Service," IEEE, July 1985 (Supplemental V)	July 1985	Human characteristics in relation to CTI are considered as with regard to cues and signaling.
Asmuth, R.L., et al., "Transaction Capabilities for Network Services," Globecom '85 IEEE Global Telecommunications Conference, New Orleans, December 1985 (Supplemental V)	December 1985	Various capabilities of telephone company operations are indicated with potential operations.
Mahood, Gerald K., "Human Factors in TOUCH-TONE Data Systems," Bell Laboratories Record, December 1971 (A21717170) (Supplemental V)	December 1971	A study of data entry. No real pertinence located.
"4 ESS System Evolution," Bell System Technical Journal, August 1981 (Supplemental V)	August 1981	Background and evolution of the "4 ESS System." Other related article cited during prosecution of this application and related patents.

# **From Prosecution:**

#### Foreign Patents:

Patent No.	Country	Public. Date	Comment
2 252 270 B	U.K.	08/1992	(′91)
(Supplemental VI)			A scratch-off telephone card has a number
			that is verified by a computer to establish a
			value for consumption by use.

### **Other Documents:**

Title of Article/Publication	Date	Comment
Friedes, A., et al., "ISDN opportunities for large business - 800 service customers," IEEE International Conference on Communications '86, June 22-25, 1986, Vol. 1, pp. 28-32 (Supplemental VI)	June 22-25, 1986	ISDN capabilities as enabling 800 routing and increased customer control are described which use two "networks," one for call transport and one for signaling. ANI is discussed. D-channel information sharing is discussed, as to route calls, collect data on the waiting queue size, screen hackers with ANNIE, select data transmission paths, identify and selectively treat callers, based on called number, redirect calls.
Allyn, Mark R. et al., "Planning for people: Human factors in the design of a new service," Bell Laboratories Record, May 1980, pp. 155-161 (Supplemental VI)	May 1980	A test automated credit card service is described which tested various protocols from the perspective of human factors, e.g. announcements, custom response time, errors, etc.
Hanson, Bruce L., et al., "No. 1A VSS New custom calling services," Bell Laboratories Record, June 1980, pp. 174-180 (Supplemental VI)	June 1980	Call routing in an answering system with various tests and directions.

#### CHART A1 (Supplemental VA)

U.S. Patent No.	Inventor	Issue Date/ Filing Date	Comments
3,553,378 (Supplemental VA)	Solomon, et al.	01/1971	Data bank access by telephone wherein, on connection, caller is given a dial tone to cue for dialing identity of desired information. Proper dial pulses fetch desired data, then connection is opened.
3,829,628 (Supplemental VA)	Tripsas	08/1974	A system for testing the ANI, as it is used for billing purposes, to indicate failures for a test person.

U.S. Patent No.	Inventor	Issue Date/ Filing Date	Comments
4,565,903 (Supplemental VA)	Riley	01/1986	System routes inter-exchange calls to a specific carrier based on signals dialed by a caller or by reference to a memory associated with the calling link.
4,581,486 (Supplemental VA)	Matthews, et al.	04/1986	Voice message system for a PBX also affording limited access to "non-users" under control of a user. A group of select message addresses can be designated to receive a message collectively. Group members may reply which replies go to all the group members.
4,750,199 (Supplemental VA)	Norwich	06/1988	From a cluster of telephone instruments (as a group of a PBX) when a frequently-dialed number is called (as to a credit service) before termination, other instruments in the group are polled to determine if they want the connection (saves connection charge).
4,761,807 (Supplemental VA)	Matthews, et al.	08/1988	Voice mail system interconnects multiple PBXs of subscribers with controls for "on net" or "off net" use by subscribers. Users can leave messages or check for messages with password. Users are cued by recorded messages. User voice characteristic features to qualify along with ID codes.
4,782,519 (Supplemental VA)	Patel, et al.	11/1988	Central office system uses ANI to ID callers, then if call requires extended service (as requiring equal access) the fetched data is used to route the call.
4,785,473 (Supplemental VA)	Pfeiffer, et al.	11/1988	Voice message system accommodates DTMF commands. Messages are stored in portions or segments for greater flexibility.
4,799,255 (Supplemental VA)	Billinger, et al.	01/1989	System uses ANI to keep a record of unauthorized communication attempts and limiting such to a predetermined number. Purpose is to block an illicit caller using various codes until a hit is accomplished.
4,856,066 (Supplemental VA)	Lemelson	08/1989	Spoken words generate codes which address a memory to record or fetch messages which are composed of spoken words. Codes are identified by computer.
4,932,021 (Supplemental VA)	Moody	06/1990	Repeated entry of commands to define a path to access a service, results in storing the path and offering it to the user as a "short cut" to the service.
4,951,307 (Supplemental VA)	Willard	08/1990	Telephone answering machine offers a touch tone choice of persons to receive message.
4,959,855 (Supplemental VA)	Daudelin	09/1990	In a directory assistance system, caller is offered the option of the located number being dialed.

U.S. Patent No.	Inventor	Issue Date/ Filing Date	Comments
5,033,076 (Supplemental VA)	Jones, et al.	07/1991	ANI number display at called station along with call screening.
5,033,088 (Supplemental VA)	Shipman	07/1991	In a speech recognition system, if speech is not recognized after two inputs, a recorded form is delivered to an operator, possibly for input to further the task.
5,054,059 (Supplemental VA)	Stern, et al.	10/1991	A telephone interface system for specialized installations (hospital, etc.) incorporating select control functions.
5,125,024 (Supplemental VA)	Gokcen, et al.	06/1992	Telephone interface with interruption of a cue in transmission by a caller, prompting the next cue.
5,148,474 (Supplemental VA)	Haralambopoulos, et al.	06/1992	In a value-added operation, caller can bill to another number, also ANI screen pop.
5,164,981 (Supplemental VA)	Mitchell, et al.	11/1992	Caller who is denied access to host system is transferred to operator who also received a display of the contents of a "transaction memory". In view of the elements in applicant's claims involving operator displays and the priority dates, the reference is not pertinent.
5,168,548 (Supplemental VA)	Kaufman, et al.	12/1992	In a speech recognition system, input is reduced to image data for fax transmission.
5,179,585 (Supplemental VA)	MacMillan, Jr., et al.	01/1993	A voice message system uses modules for different operations, e.g. bulletin board, voice mail, networking, etc.
5,181,236 (Supplemental VA)	LaVallee, et al.	01/1993	Messaging system with message delivery and telephone number notice for call return.
5,186,471 (Supplemental VA)	Vancraeynest	02/1993	Gaming system uses PTMF both for remote station and central to facilitate a match test.
5,214,689 (Supplemental VA)	O'Sullivan	05/1993	A transportation information system that searches memory to locate "closest" trip to the time specified by a telephone inquiry.
5,236,199 (Supplemental VA)	Thompson, Jr.	08/1993	A system for using a conventional telephone keypad to simulate a mouse, joy stick and so on, for interface use.
5,289,531 (Supplemental VA)	Levine	02/1994	A scheduling system for appointments by telephone (interactive) whereby time slots are filled by computer.
5,327,554 (Supplemental VA)	Palazzi, III, et al.	07/1994	System uses telephone and television receiver to facilitate interactive communication with a host computer.
5,361,295 (Supplemental VA)	Solomon, et al.	11/1994	An interactive telephone system buffer for interfacing parties without revelation of their telephone numbers. Uses DID embedded in used number.

U.S. Patent No.	Inventor	Issue Date/ Filing Date	Comments
5,369,685 (Supplemental VA)	Kero	11/1994	A personal voice activated telephone directory uses network storage with verified access to reveal telephone numbers.
5,416,830 (Supplemental VA)	MacMillan, Jr., et al.	05/1995	For voice messaging, modules (bulletin board, voice mail, networking, etc.) are used to process voice.
5,511,112 (Supplemental VA)	Szlam	04/1996	Outbound call processor schedules calls for agents according to rank and priority.
5,537,143 (Supplemental VA)	Steingold, et al.	07/1996	For use with a television receiver and a telephone, the system enables interactive communication in a gaming format.
5,561,710 (Supplemental VA)	Helms	10/1996	A device for providing alphanumeric representations from a keypad that generate DTMF signals in sequences.
5,623,536 (Supplemental VA)	Solomon, et al.	04/1997	Another anonymous interface system per 5,361,295
5,651,048 (Supplemental VA)	Leeuw	07/1997	A switching arrangement with a charge circuit to control state.
5,768,348 (Supplemental VA)	Solomon, et al.	06/1998	Another anonymous patent, see '536 and '295.

### **Foreign Patents:**

Patent No.	Country	Public. Date	Comment
1162484	Great Britain	04/1967	Central office call blocking by storing
(Supplemental VA)			connections to be blocked.
WO 89/11768	PCT	11/1989	A caller identification system (ANI) for use as
(Supplemental VA)			to block calls from defaulted lines.
WO 90/10989	PCT	09/1990	Infraction retrieval system using fax
(Supplemental VA)			communication and DTMF.
WO 90/11661	PCT	10/1990	Catalog ordering system: callers telephone
(Supplemental VA)			number (buyer ID), called telephone number
			(seller ID), and product number (product) are
			communicated to seller as an order.
WO 91/15818	PCT	10/1991	System for telephonically accessing a data
(Supplemental VA)			base using telephone and fax.
WO 92/06548	PCT	04/1992	An audio response system wherein a
(Supplemental VA)			plurality of audio units (ARUs) are controlled
			by a central command apparatus.
WO 92/09164	PCT	05/1992	An interactive system for routing or assigning
(Supplemental VA)			and re-assigning calls to different agents
			based on caller-entered commands.
WO 92/15166	PCT	09/1992	A voice message system is enhanced with a
(Supplemental VA)			program for handling incoming calls and
			using received network information.
2253542	Great Britain	09/1992	A system for accommodating connections for
(Supplemental VA)			extension telephones and using
			authorization codes.
EP 0 382 212 B1	EPC	07/1998	A multimedia communication system

Patent No.	Country	Public. Date	Comment
(Supplemental VA)			(telephone, fax, etc.) with economy of time and clear operation cues.
EP 0 382 670 B1 (Supplemental VA)	EPC	04/1997	Interface operation sequence is controlled by a "state" register ("Play prompt", "get key", "wait for call", etc.) which implements actions and advances.
EP 0 438 860 B1 (Supplemental VA)	EPC	09/1996	Call blocking method.
0 451 693 A2 (Supplemental VA)	EPC	10/1991	Selectively controlling access to network services based on subscriber or non-subscriber.
0 451 695 A2 (Supplemental VA)	EPC	10/1991	Controlled access to telephone services based on voice recognition templates.
0 453 831 A2 (Supplemental VA)	EPC	10/1991	Control of telecommunications access based on voice spoken phrases.
0 454 363 A2 (Supplemental VA)	EPC	10/1991	Telecommunications access control based on speech recognition.

## **CHART B (SUPPLEMENTAL VII)**

# Foreign Patents:

Patent No.	Country	Public. Date	Comment
WO 87/00370	PCT Int. Application	01/15/1987	PCT application describing a modulation technique for data transmission (spread spectrum).

#### **Other Documents:**

Title of Article/Publication	Date	Comment
Aarons, D., "The Voice of the 80's," PC Magazine, Volume 4, Number 5, March 5, 1985, p. 114 (A21707135) (Supplemental VII)	March 5, 1985	#75, Synthetic speech only.
"ACD 'Magic' from AT&T's Merlin," Telecommunications Product Review, Volume 13, Number 4, April 1986 (A21708371) (Supplemental VII)	April 1986	Call distribution per Merlin and call processing in a very general way, e.g. line status, assignment, queues, time accounting.
"Actor Promotes Phone Services," Hammond Louisiana Star, August 23, 1984 (A21708860) (Supplemental VII)	August 23, 1984	soap opera information is available by telephoning a service in New Orleans. Charges a caller's bill. – "976".
Allerbeck, M., "Experience with the Voice Mail System EMS 2000 Info – Results of an Acceptance Study," ISS '84 Florence,	May 1984	EMS 2000 Info – Voice Mail – Receives, stores and transmits spoken messages – PTMF control and voice prompts.

Title of Article/Publication	<u>Date</u>	Comment
May 1984, Session 14 A, Paper 6, Page		
1		
(Supplemental VII)	ļ	
Amano, Fumio, et al., "Imagephoe!!:	1985	Non-machine interface discloses a tablet
Integrated Voice/Data Terminal With		for digitizing drawings and various controls
Hand-Drawing Man-Machine Interface,"		for imaging.
IEEE, 1985 (A03701430)		1
(Supplemental VII)		
Ambrosio, Johanna, "Electronic and	May 19, 1986	1986, Computer world story lines, voice
Voice Mail; They're No Match for Each	,,	mail, electronic mail.
Other-Yet," Computerworld, May 19,		
1986, p. 53 (A21708461)		
(Supplemental VII)		
"American-Network: Files Complaint	June 4, 1986	Press Release on AmNet suit against Pac.
Against Pacific Northwest Bell," Business	Julie 4, 1900	Norwest Bell alleging anti-trust violation.
Wire, June 4, 1986 (A21708495)		Horwest Den alleging anti-trust violation.
(Supplemental VII)		
"American-Network: Signs Letter of	August 14,	1984, Press Release re: Am Net, Inc.'s
	1984	intent to merge with L.D. Comm.
Intent to Merge L D Communications  Long Distance Service into the	1504	intent to merge with L.D. Comm.
Company," Business Wire, August 14,		
1984 (A21708856)		
(Supplemental VII)	D	Ot FDD
Andrews, Edmund L., "Patents:	December 24,	Story on FDR re game show; news piece
Computer System Lets TV Audience Join	1988	on FDR and RAK.
Show," The New York Times, December		
24, 1988 (A01331146)		
(Supplemental VII)	0 1 1 10	
Arnst, Catherine, Press Release,	September 16,	Press Release re: voice mail.
Reuters, September 16, 1984	1984	
(A21708908)		
(Supplemental VII)		
"AT&T Announces Major Additions to	December 14,	AT&T announces telemarketing products,
Telemarketing Products and Services,"	1987	no detail.
Telephone News, December 14, 1987		
(A21723927)		
(Supplemental VII)		
"AT&T AT&T Announces New Software	February 10,	AT&T announces new PBX that is
Enhancements," Business Wire,	1987	compatible with ISDN.
February 10, 1987 (A21707782)		
(Supplemental VII)		
"AT&T Announces New Software	February 10,	Press Release on AT&T software for digital
Enhancements for its PBX," PR	1987	interfaces.
Newswire, February 10, 1987		
(A21707779)		
(Supplemental VII)		
"AT&T Computer System Will Be	September 9,	News piece on AT&T's Conversant plans
Produced Here," The Columbus	1985	for production in Columbus, Ohio.
Dispatch, September 9, 1985		
(A01354694)	I .	I
(AU1334034)	· ·	
(Supplemental VII)	·	

Title of Article/Publication	<u>Date</u>	Comment
Produced Here," The Columbus	1985	for production in Columbus, Ohio.
Dispatch, September 9, 1985		·
(A01354694)		
(Supplemental VII)		
"AT&T CPU Puts Voice Recog on Any	Unknown	News piece on AT&T Conversant and
Phone," Article Source Unknown		other systems.
(A01354681)		
(Supplemental VII)		
"AT&T's Digital MERLIN,"	July 1987	Article on AT&T's "Merlin II" featuring
Telecommunications Product Review,	,	voice/data operations.
Volume 13, Number 7, July 1987		
(A21724743)		
(Supplemental VII)		
"AT&T's Flagship System 75: A	July 1984	Article on AT&T's "System 75" for digital
Comprehensive Analysis of the System	Odiy 1004	interfaces.
85's 'Little Cousin," Telecommunications		interfaces.
Product Review, Volume 11, Number 7,		
July 1984 (A21724612)		
(Supplemental VII)		
"AT&T Forms Unit to Sell Synthetic	September 10,	News piece on AT&T Conversant systems
Speech Systems," Wall Street Journal,	1985	organization.
September 10, 1985 (A01354689)	1900	organization.
(Supplemental VII) "AT&T Plans Computer Unit," The New	Contombou 10	Nove piece on ATOT appeals recognition
•	September 10,	News piece on AT&T speech recognition
York Times, September 10, 1985	1985	system.
(A01354690)		
(Supplemental VII)	D	\(\frac{1}{2}\)
"AT&T Showtime's Viewer's Choice,	December 5,	Viacom and AT&T release on "Viewers
Viacom Cable and AT&T to Test Pay-	1985	Choice" pay-per-view.
Per-View Ordering System," Business		
Wire, December 5, 1985 (A21708103)		
(Supplemental VII)		
"AT&T Sports Service," PR Newswire,	September 24,	Release on "Dial-It" for 900 sports
September 24, 1980 (A21710432)	1980	highlights by telephone.
(Supplemental VII)		
"The AT&T System 25,"	August 1986	The AT&T "System 25 voice/data PBX for
Telecommunications Product Review,		routing and signaling.
Volume 13, Number 8, August 1986		
(A21706368)		1
(Supplemental VII)		
Press Release, PR Newswire, November	November 1,	AT&T's "System 85" expanded PBX for
1, 1984 (A21708963)	1984	messaging, ESS interface, etc.
(Supplemental VII)		
AT&T Technical Journal – The 5ESS	July-August	AT&T's Technical Journal on the 5ESS
Switching System, Volume 64, Number	1985	switch, with: data management (1364),
6, Part 2, July-August 1985 (A21723626)		peripheral control (1370), data access
(Supplemental VII)		(1365), switching control (1371),
,		administrative services (1375), call
		processing (1373), and billing (1377). Note
		5ESS is the fifth in the series of stored
		program control units. Digital operation
	1	and time-division were implemented in

Title of Article/Publication	Date	Comment
The street assistance	- Date	4ESS. Of course, software could
		implement many specific features, as call
		processing, The "Journal" consists of a
		number of technical papers, however, no
		pertinence found.
Excerpt from AT&T Technical Journal,	September-	Part of an article on Conversant hardware
September-October 1990, pp. 53-60	October 1990	and software architecture.
(A21723942)	October 1990	and software architecture.
(Supplemental VII)		
"Automated Switchboard Attendant	July 1985	Article on an "automated switchboard"
Helps Insurance Company Control Net	ouly 1500	replacing operators.
Expenses," Communications News, July		replacing operators.
1985 (A21726011)		
(Supplemental VII)		
Aversano, Nina, "The Telephone as	Fall 1989	A lay article on voice response and
Computer," Review of Business, Fall	1 411 1000	computer interface.
1989, p.5 (A21723928)		Tampator interidee.
(Supplemental VII)		
Ayres, Paul, "Voice Response Pay-By-	November 9,	News article on pay-by-phone using voice
Phone Matures," Computerworld,	1979	response to form a record of payment.
November 9, 1979, p. 47 (A21725960)		
(Supplemental VII)		
Baker, Janet M., "Voice-Store-And-	August-	An introductory comment on the function of
Forward: The Voice Message Medium,"	September	voice messaging and speech recognition.
Speech Technology, August-September	1984	
1984 (A21724633)		
(Supplemental VII)		
Bakke, Bruce B., "Electronic Voice	June 29, 1984	Gordon Matthews conceives of voice mail
Mailbox: Potential for Fast Growth," BC	,	and the formation of VMX, Inc.
Cycle, June 29, 1984 (A21708785)		· ·
(Supplemental VII)		
Bakke, Bruce, B., "GTE's 'Voice	April 11, 1983	A form of voice mail implemented in Texas
Mailboxes' Page the World," U.P.I., April		by GTE is described.
11, 1983 (A21713359)		
(Supplemental VII)		<u></u>
Barbetta, Frank, "AT&T Offers Digital	November 5,	AT&T's "System 85" (PBX) upgrades are
PBX Enhancements," Electronic News,	1984	described. Software packages and
Volume 30,, November 5, 1984, p. 69		enhanced structure is identified.
(A21708967)		
(Supplemental VII)		
Barbetta, Frank, "Custom Functions	Unknown	Article on AT&T's "LASS" available on the
Offered in New AT&T Co. Package,"		IAESS switch to enhance calling functions,
Article Source Unknown (A21726008)		e.g. call tracing, call transfers, redial, etc.
(Supplemental VII)		
Barkauskas, B. J., et al., "Network	June 1983	(Incomplete) Network Services Complex is
Services Complex: A Generalized		described with 4ESS switches to
Customer Interface to the Telephone		conference users.
Network," IEEE International Conference		
on Communications, Conference Record,		
Volume 2, June 1983, p. 805		
(A21725715)		
(Supplemental VII)		

Title of Article/Publication	Date	Comment
Barlin, David, "Switch-Hitter: A Data	October 1984	Story on PBX managers, their areas and
Man's Guide to the World of Voice," Data	October 1904	interests. Also summarily treats PBX
Communications, October 1984, p. 114		products of several companies.
(A21708926)		products of several companies.
(Supplemental VII)		
	F-h 1002	Adiala as "as as de 2" as de as as de
Basso, Richard J., et al., "Expanding the Capabilities of the ? Traffic Service	February 1983	Article on "operator" replacement
Position System," Bell Laboratories		computers; Processor and peripherals are
		treated.
Record, February 1983, pp. 22-27 (A21724556)		
(Supplemental VII)	Cantambas 22	Change and Marriage and barrely well of
Belcher, Jerry, "Earthquakes in Mexico;	September 22,	Story on Mexican earthquake relief.
U. S. Relief Includes Hardware, Experts;	1985	
Cash Aid Suggested," Los Angeles		
Times, September 22, 1985		
(A21708026)		
(Supplemental VII)	11.1	A title as Ball as a facility
"Bell Files Tariffs on CO-Based Switching	Unknown	Article on Bell re: potential for data
System in PA.," Communications, Date		processing.
Unknown (A21725944)		
(Supplemental VII)		
Bell Laboratories Record, August 1984,	August 1984	Cover pages of AT&T publication
Cover Page and Table of Contents		"RECORD"; no pertinence found
(A21708811)		
(Supplemental VII)		
The Bell System Technical Journal, May-	May-June 1982	Bell Technical Journal, (61) includes
June 1982 (A21709814)		articles on Human Performance
(Supplemental VII)		Engineering and voice storage. Probably
		basis for selection but still not pertinent.
		Note descriptions of "voice-mail" type
		operators.
Excerpt from The Bell System Technical	October 1980	Part of an article (1980) perhaps from the
Journal, October 1980, pp. 1384-1395		Bell Technical Journal on speech storage
(Supplemental VII)		(pp. 1384-1392)
Bertoglio, O., et al., "An Interactive	June 1984	Article on aspects of voice messaging.
Procedure for Voice Messaging Services		
in a Traditional Network," CSELT		
Technical Reports, Volume 12,		
Supplement 10, Number 3, June 1984		
(A21708755)		
(Supplemental VII)		
Bingham, Sanford, "Groceries By	August 1988	Article on interactive system for ordering
Phone," Inbound/Outbound, August 1988		groceries from home.
(A21725728)		
(Supplemental VII)	L	
"Some Tips on Integration,"	August 1988	Article on Data Management generally for
Inbound/Outbound, August 1988		telephone interface systems.
(A21725731)		
(Supplemental VII)		
Black, Philip, "How ISDN Services Could	June 1984	Article on ISDN - 1984 (Integrated
Make or Break the Big Network," Data		Services Digital Network).
Communications, June 1984, p. 247		,

Title of Article/Publication	Date	Comment
(A21708771)		
(Supplemental VII)		
"'Blast' from Data Systems Runs Under	May 3, 1982	Story on a computer interface software.
DG's AOS/VS," Computerworld, May 3,		
1982, p. 38 (A21724423)		
(Supplemental VII)		
Booker, Ellis, "How to Save Big Bucks on	November 15,	Story on PABX and call recording services.
Phone Calls," Computer Decisions,	1984	
Volume 16, November 15, 1984, p. 16		
(A21708983)		
(Supplemental VII)		
Borchering, J. W., et al., "Customized	May 1984	AT&T article on switching systems,
Switching Systems," ISS '84 Florence,		spcifically 5ESS and benefits of
May 1984, Session 14 A, Paper 4, pp. 1-		customized operators.
5 (A21725533)		
(Supplemental VII)	Manak A '	Description of Description
Bowling, Tom, "Pay TV: A Pay-Per-	March-April	Description of Pay TV based on scrambling
Minute System Prototype," Television:	1984	operators, decoding by: mail requests, telephone operators, cable communication,
Journal of the Royal Television Society,		
March-April 1984, pp. 79-83   (A21724588)		pay-per-minute.
(Supplemental VII)		
Brady, Erik, "Players, Fans Get Back in	Unknown	Strike ends.
the Swing," USA Today, Date Unknown	OTIKITOWIT	Strike erius.
(A21706710)		1
(Supplemental VII)		
Brady, Erik, "Resentful Fans Verbally	Unknown	newspaper piece on baseball strike, no
Strike Back," USA Today, Date Unknown		pertinence.
(A21706709)		
(Supplemental VII)		
Brooke, Jill, "A Hi-Tech Interactive TV	January 20,	News piece on FDR Interactive operations,
Service is Planned," New York Post,	1989	as for promotions and sales.
January 20, 1989 (A01331148)		
(Supplemental VII)		
Brown, Jim, "Contracts; Rolm Wins	March 9, 1987	Columbia University signs with IBM/Rolm
College Bid," Network World, March 9,		for new Telephone Switch.
1987, p. 4 (A21707859)		
(Supplemental VII)		
Brown, Jim, et al., "ICA Preview; AT&T	May 26, 1986	AT&T announces ISDN, ACD services and
May Steal Show," Network World, May		a new PBX.
26, 1986, p. 1 (A21708473)		
(Supplemental VII)	5.1	D. I. O. I.
Brown, Jim, "PBX Market; Rolm Beefs up	February 9,	Rolm Corp's new switch.
CBX Line Capacity," Network World,	1987	
February 9, 1987, p. 4 (A21707777)		
(Supplemental VII)  Brown, Jim, "VMX 5000 Series; Voice	October 12	VMY Inc. appounces voice messaging
1	October 13, 1986	VMX, Inc. announces voice messaging
Messager Debuts," Network World, October 13, 1986, p. 6 (A21706653)	1900	system.
(Supplemental VII)		
Brown, Jim, "Voice Mail; Rolm to	February 2,	Rolm Corp.'s new phonemail.
Accounce New Low-Cost Phonemail,"	1987	North Corp. & new phonemali.
ACCOUNTED INCM LOW-COST LITCHELINGH,	1 1 3 0 1	<u> </u>

Title of Article/Publication	<u>Date</u>	Comment
Network World, February 2, 1987		
(A21707763)		
(Supplemental VII)		
Buckhout, Wayne, "Columbus-Born	September 10,	News piece on AT&T interface computer in
AT&T Computer Listens, Talks and	1985	Columbus, Ohio (Conversant).
Shows Promise," Article Source		
Unknown, September 10, 1985		
(A01354692)		
(Supplemental VII)		
Bulfer, Andrew F., et al., "A Trial of a	1986	AT&T's pay per view.
National Pay-Per-View Ordering and	1000	Trial opay por rion.
Billing System," NCTA, 1986		
(A21724669)		
(Supplemental VII)		
Burstyn, H. Paris, "Phone Features: The	June 1986	an article on computerized switches, and
Next Wave," High Technology, June	Julie 1300	offerings as call blocking, call forwarding,
1986 (A21726009)		caller i.d., etc.
(Supplemental VII)		Caller I.d., etc.
Capital Cities/ABC Video Enterprises,	January 19,	Story on FDR-ABC agreement.
Inc. Teams with FDR Interactive	1989	Story of the N-Abo agreement.
Technologies to Explore Applications for	1909	
New Telephone Technology," Capital Cities/ABC, Inc. Broadcast Group,		
January 19, 1989 (A01331147)		
(Supplemental VII)	June 1983	Tout to Charak article limited to tout to
Carlson, Rolf, et al., "Text-To-Speech	June 1963	Text-to-Speech article limited to text-to-
conversion in Telecommunications,"		speech substance.
Proceedings of the Tenth International		
Symposium on Human Factors in		
Telecommunications, June 1983, pp.		
239-245 (A21725801)		
(Supplemental VII)		
Press Release, PR Newswire, December	December 5,	Pay-per-view; uses ANI but no other details
5, 1985 (A21708106)	1985	provided for phone system that can use
(Supplemental VII)		rotary dialing.
Chapin, Dwight, "A Kids' Game," Article	Unknown	Updated news article on telephone
Source Unknown (A21706674)		baseball game.
(Supplemental VII)		
Charlish, Geoffrey, "Telephone Message	January 16,	Basic phone mail system takes messages.
that Failed to Get Across to the U. K.,"	1986	
Financial Times, (A21708203)		
(Supplemental VII)		
Collins, Francis R., "Reality of Equal	September 1,	Story on "equal access" as may be
Access: Implementation Problems,"	1984	required of AT&T.
Telephone Engineer & Management,		
Volume 88, September 1, 1984, p. 128		
(A21708884)		
(Supplemental VII)		
"Company News: Phone Service to be	January 20,	Story on FDR service.
Tested," The New York Times, January	1989	
		I .

Title of Article/Publication	<u>Date</u>	Comment
(Supplemental VII)	Build	Comment
"Components," Electronic News, 1984	1984	Electronic News Sheet, no relevance is
(A21726007)		perceived.
(Supplemental VII)		
"Computerized Telecommunications	Unknown	Voice response for PBX use is considered.
Switching Systems," Article Source		
Unknown		
(Supplemental VII)		
Connolly, James, "Republican	July 9, 1984	1984 article on phone system for political
Convention Set to Test		conventions, not pertinent.
Telecommunications," Computerworld,		
July 9, 1984, p. 17 (A21708804)		
(Supplemental VII)		
Conroy, Cathryn, "Audiotex Arrives,"	Unknown	Introductory article on audiotex telephone
Monitor, Date Unknown (W71189)		interface equipment.
(Supplemental VII)		
"Corporate Preoccupation with Costs	May 14, 1986	Telephone management systems are
Spurs Telephone Management Sales,"		considered – no pertinence.
Computerworld Focus, May 14, 1986, p.		
13 (A21708457)		
(Supplemental VII)		
Cox, John D., "Talk Into Telephone,	September 10,	News piece on AT&T speech processing
Command a Computer," The	2985	and computer interface technology.
Sacramento Bee, September 10, 2985		
(A01354683)		
(Supplemental VII)	A = :1 00 4004	Adiala anadiata anadiata anadiata
"CPU, PBX Vendors Drawing Alliances," Computerworld, April 23, 1984, p. 15	April 23, 1984	Article predicts marriage of computers and
(A21708674)		voice/data telephone exchanges.
(Supplemental VII)		
Crawford, K. E., et al., "4A Toll Crossbar	February 1978	1977- Early article on software controlled
Application," The Bell System Technical	Tebluary 1970	telephone switches, call processing (p.
Journal, Volume 57, Number 2, February		301) not pertinent.
1978, pp. 283-323 (A21716223)		301) not pertinent.
(Supplemental VII)		
Croxall, L. M., et al., "Operational	May 1984	AT&T article on the 5ESS stored program
Experience with the 5ESS™ Switch," ISS		switch (1984), not pertinent.
Florence, Session 42 A, Paper 4, May		
1984 (A21725550)		
(Supplemental VII)		
Cummings, Steve, "Voice-Mail Systems	December 9,	Glowing report on voice mail systems, e.g.
Attract Tentative Interest," PC Week,	1986	Vynet.
Volume 3, Number 49, December 9,		
1986, p. 140 (A21707565)		
(Supplemental VII)		
Curtis, Janice, "At a Turning Point, VMX	July 14, 1986	Voice mail article (VMX) (Matthews
Makes Moves to Boost Voice Messaging		Patent).
Business," Dallas Business Courier,		
Volume 2, Number 13, Section 1, July		
14, 1986, p. 19 (A21706328)		
(Supplemental VII)		
Daniel, Heidi C., "Inventor Battles	August 12,	Report on voice mail system (Elkins) as

Title of Article/Publication	<u>Date</u>	Comment
Computer Giants," South Florida	1985	asserted in a patent case.
Business Journal, August 12, 1985		'
(A21707969)		
(Supplemental VII)		
Press Release, Communications Daily,	September 11,	Re telecommunications report tracks
Volume 4, Number 177, September 11,	1984	personnel movements.
1984, p. 7 (A21708903)		personner merennerne.
(Supplemental VII)		
Danner, Patrick, "Dial Info Charges	April 18, 1988	Report on: a survey directed to call
Electronics Giant Disconnected Deal,"	7,5111 10, 1000	processing, EDS suit on voice response
San Francisco Business Times, Volume		contract, and sports celebrities.
2, Number 33, April 18, 1988		Contract, and sports colesinies.
(A21724767)		
(Supplemental VII)		
Excerpt from Data Communications,	September	AT&T new products, specifically re PBX
September 1985, pp. 399-410	1985	units.
(A21707991)	1903	units.
1 '		
(Supplemental VII) Davis, Judith R., "Voice Messaging	Lister	Office computing report 4007 to at-
Systems," Patricia Seybold's Office	Unknown	Office computing report – 1987, treats
		voice mail, it's growth, functions, and
Computing Report, Volume 10, Number		history from Matthews, details information
9, p. 1-28 (A21716964)		retrieval (p. 7) along with players, market
(Supplemental VII)		and user experience.
Day, J. F., et al., "Networking Voice and	Unknown	AT&T technology – 1987 – networking with
Data with a Digital PBX," AT&T		a digital PBX; mentions ANI to access a
Technology, Date Unknown (A21707584)		database (caller ID). Not pertinent.
(Supplemental VII)	ļ	A distance A TOT is stall as a second
Whitten, W. B., II, "Advanced Interfaces	Unknown	Article: AT&T is delivering service
Speed Delivery of Services," AT&T		management systems that are flexible and
Technology, Date Unknown (A21707593)		easy to use involving the human-computer
(Supplemental VII)		interface.
"Definity Announcement Includes Other	March 1989	Telcom product review discusses new
New Products," Telecommunications		station instruments (analog and digital
Product Review, Volume 16, Number 3,		telephones).
March 1989 (A21712758)	İ	
(Supplemental VII)		
DeLessio, N. X., et al., "An Integrated	May 1984	Paper on operator services for 5ESS –
Operator Services Capability for the		May 1984 – discusses operator services
5ESS System," ISS '84 Florence, May		using 5ESS system and various terminals,
1984, Session 22 C, Paper 3, Page 1-5	1	however still manual.
(A21725538)		
(Supplemental VII)		
Desmond, Paul, "Patented Call-Routing	August 1, 1988	Article on the Riskin patent on call routing
Tool Boon for Retail Industry; Instalink		per ANI.
Will Use ISDN for Automatic Number ID,"		
Network World, August 1, 1988		
(A21712653)		
(Supplemental VII)		
"Dial-A-Drill," The New York Times,	January 20,	New York City students participate in an
January 20, 1969 (A21725951)	1969	experiment using telephones to test, e.g.
(Supplemental VII)		"What is four plus two?" Correct answers
		prompt another question, wrong answers

Title of Article/Publication	<u>Date</u>	Comment
		prompt repeat – record is made.
"Dialing for Pennies," California Living	August 12,	Magazine article reveals that 976 line gets
Magazine, August 12, 1984 (A21708855)	1984	pre-recorded messages at 35 cents a call.
"Distributed Data Processing and	May 1986	Article lists data processing and messaging
Messaging Systems," Data	Way 1000	systems available – appears quite
Communications, May 1986, p. 105		comprehensive.
(A21708428)		Comprehensive.
(Supplemental VII)		
Dix, John, "AT&T Breathes New Life into	O-4-b 07	News article on AT&T use of ISDN to
its Switch-and-Wire Beast," Network	October 27, 1986	
	1900	facilitate voice-data communication; stories
World, October 27, 1986, p. 1		on AT&T related subjects, specifically:
(A21706662)		ISDN is coming, expanded PBX
(Supplemental VII)		operations, enhanced network services,
		voice messaging and data
		accommodations.
Dix, John, "AT&T Tries Different Tack,"	November 25,	Story on AT&T coupling for peripherals.
Computerworld, November 25, 1985, p.	1985	
19 (A21708097)		
(Supplemental VII)		
Dix, John, "AT&T Unleashes 'Gazelle,"	April 30, 1984	AT&T introduces a voice/digital PBX.
Computerworld, April 30, 1984, p. 2		
(A21708710)		
(Supplemental VII)		
Dix, John, "Enhancements Out for	November 12,	Story on AT&T's high end PBX, as for
AT&T's High-End PBX," Computerworld,	1984	voice mail.
November 12, 1984, p. 99 (A21708970)		
(Supplemental VII)		
Brown, Jim, "VMX 5000 Series: Voice	October 13,	Story on AT&T's high end PBX, as for voice
Messager Debuts," Network World,	1986	mail.
October 13, 1986, p. 6 (A21706653)	1000	man.
(Supplemental VII)		
Dix, John, "Ford Motor Co.; Driving Down	July 14, 1986	Story on Ford Motor using voice mail.
Costs with Voice Mailboxes," Network	July 14, 1900	Story of Ford Wotor dailing voice mail.
World, July 14, 1986, p. 32 (A21706326)	i	
(Supplemental VII)		
Dix, John, "Hello, This is a Voice Mail	July 14, 1986	Story on voice mail possibilities and human
Recording.," Network World, July 14,	July 14, 1900	engineering.
		Gilgingering.
1986, p. 1 (A21706331)		
(Supplemental VII)	luma 0, 4000	Cham, on Dolm Corn to toler have switch for
Dix, John, "Rolm; Long-Awaited	June 2, 1986	Story on Rolm Corp.'s telephone switch for
Redwood to Debut at ICA Today,"		use as a key system or PBX.
Network World, June 2, 1986, p. 4		
(A21708493)		
(Supplemental VII)		
Dix, John, "Switch Management: DEC	June 9, 1986	Story on digital Equip's new PBX software.
Tools Debut at ICA," Network World,	1	
June 9, 1986, p. 8 (A21708497)		
(Supplemental VII)		
Dix, John, "Unified Messaging; AT&T	September 22,	Story discusses AT&T plan to integrate
Reveals New Message Blueprint,"	1986	electronic mail, voice mail, and image mail.
Network World, September 22, 1986, p.		
1 (A21706473)	1	
Network World, September 22, 1986, p.	1986	electronic mail, voice mail, and image mail.

Title of Article/Publication	<u>Date</u>	Comment
(Supplemental VII)		
Dix, John, "Voice/Data PBXs: More than	April 23, 1984	Story on companies using PBXs to switch
Today's Users Need?," Computerworld,		data.
April 23, 1984, p. 14 (A21708669)		
(Supplemental VII)		
Dorros, Irwin, "Evolving Capabilities of	January-	Article on expanded PSTN as regarding:
the Public Switched Telecommunications	February 1981	DSD, CCIS, 800 service, locator service,
Network," Business Communications		etc.
Review, January-February 1981		
(A21725652)		
(Supplemental VII)		
Dowd, Ann Reilly, et al., "Dollars from	March 16, 1987	Story on interface operations, e.g. Pepsi
Dialing," Fortune, March 16, 1987, p. 10		football.
(A21707869)		
(Supplemental VII)		
Drinkwater, Larry, "Voice Processing: An	August-	Article on voice synthesis and voice
Emerging Computer ? Technology,"	September	recognition.
Speech Technology, August-September	1984	
1984, pp. 50-54 (A21708826) (illegible)		
(Supplemental VII)		01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Edwards, M., "Digital PBXs Zero in on	December	Story on expanded use of digitalized PBXs.
the Key Role as Hub of Office,"	1984	
Communications News, Volume 21,		
Number 12, December 1984, p. 44		
(A21708992)		
(Supplemental VII) Egly, Diana G., et al., "Mnemonic Aids for	September	Paper on mnemonic aids for telephone
Telephone-Based Interfaces,"	1985	interface, that is, key pad entries.
Proceedings of the Eleventh International	1903	interface, that is, key pad entires.
Symposium on Human Factors in		
Telecommunications, September 1985		
(A21725818)		
(Supplemental VII)		
Eichenwald, Kurt, "Just a Phone Call	April 16, 1988	Story on uses of CTI.
Away: More Dial-It Services," The New	7 (\$111 10, 1000	
York Times, April 16, 1988 (A21725852)		
(Supplemental VII)		
Excerpt from Electrical Communication	1981	Apparently a paper on CTI.
Facilities (in Japanese), Volume 33,		
Number 9, 1981 (A21724248)		
(Supplemental VII)		
"Electronic Switching: Digital Central	1982	IEEE book on digital switching, describes
Office Systems of the World," Edited by		several specific switches, e.g. 4ESS,
Amos E. Joel, Jr., IEEE Press, 1982		DMS10, etc.
(A21716673)		,
(Supplemental VII)		
"Electronic Voice Mail Revolutionizing	June 30, 1986	General comments on voice mail.
Communications," Tulsa Business	,	
Chronicle, Volume 5, Number 26, June		
30, 1986 (A21708510)		
(Supplemental VII)		
Press Release, PR Newswire, March 20,	March 20, 1984	Story on Rolm sale of system for "phone

Title of Article/Publication	Date	Comment
1984 (A21708647)		mail," No details.
(Supplemental VII)		
Elliot, Thomas R., "A Voice in the	June 13, 1984	General story on the state of voice mail.
Wilderness," Computerworld, June 13,		
1984, p. 76 (A21708779)		
(Supplemental VII)		
Emerson, Jim, "Catalog Business," DM	December 15,	Story on telemarketing wherein customers
News, December 15, 1985 (A21708115)	1985	identify product by touching keys.
(Supplemental VII)	1.303	, , , , , ,
Emerson, Jim, "Eliminating Live	December 15,	Story on "Dial Info" telemarketing service,
Operators," DM News, December 15,	1985	no details.
1985 (A21708114)	1303	
(Supplemental VII)		
Engelbardt, Robert M., "Island Paradise	September 15,	Story on the updating of a South Pacific
Gets System Update," Telephone	1984	telephone system.
Engineer & Management, Volume 88,	1304	telephone system.
September 15, 1984, p. 104		
(A21708904)		
(Supplemental VII)		
Evans, S. A., et al., "Talking and	Unknown	Article on AT&T Conversant Systems,
Listening to the Conversant 1 Voice	Unknown	mentions DID to ready system for incoming
System," AT&T Technology, Date		transaction.
Unknown (A21710392)		transaction.
(Supplemental VII) Fantel, Hans, "Video: Movies Hot Off the	March 29, 1987	Stant on using 900 contine and ANI for
	March 29, 1967	Story on using 800 service and ANI for
Tube," The New York Times, March 29,		pay-per-view service.
1987 (A21707890)		
(Supplemental VII)	Nevenber	Stan, on Cardon Matthewa on father of
"The Father of Voice Messaging,"	November	Story on Gordon Matthews as father of
Network World, November 1984, p. 57	1984	voice mail.
(A21708942)		
(Supplemental VII)		Add-L-ATOT introduces colored
Feldman, Robert, "New AT&T Packages	June 2, 1986	Article: AT&T introduces enhanced
Designed to Spruce up Systems 75/85,"		equipment as call management and
MIS Week, June 2, 1986, p. 30		speech conversions.
(A21725895)		
(Supplemental VII)		A Color of the Health
Fine, Happy, "Tavern on the Bluegrass,"	Unknown	Articles on basketball.
Eastern Basketball, Date Unknown		
(A21706749)		
(Supplemental VII)	1	
"Firm Created After Patent Suit Against	October 17,	Story on foundation of RAKTL.
First Data," Reuters, October 17, 1994	1994	
(A01331388)		
(Supplemental VII)		
Fischell, David R., et al., "Interactive	September-	Article details commercial aspects of voice
Voice Technology Applications," AT&T	October 1990	response as for voice mail, information
Technical Journal, September-October		sources, and transactions.
1990 (A34100164)		
(Supplemental VII)		
Foster, Robin Harris, "In the Forefront	1992	AT&T material on products and services
with Integrated Call Centers," AT&T		including: routing information management,

Title of Article/Publication	Date	Comment
Technology, Volume 7, Number 4, 1992		ISDN, voice, etc.
(A21712913)		
(Supplemental VII)		
Froehlich, F. E., et al., "The Switched	December	AT&T article on transaction telephone data
Network Transaction Telephone	1978	sets and system.
System," The Bell System Technical		
Journal, Volume 57, Number 10,		
December 1978, pp. 3475-3485		
(A21725995)		
(Supplemental VII)		
Froehlich, Leopold, "Are Smart Buildings	October 1,	Story on computerized building operations
a Dumb Idea? If They're Going to	1985	as a modern PBX.
Prosper, Shared Service Providers Will		
Have to Move from Telephony into Office		
Automation," Datamation, Volume 31,		
October 1, 1985, p. 101 (A21708046)		
(Supplemental VII)		
Gates, G. W., et al., "Software," The Bell	May-June 1982	Early report of stored program software to
System Technical Journal, Volume 61,		improve routing and call control (1AESS).
Number 5, May-June 1982, pp. 863-883		
(A21725913)		
(Supplemental VII)		
Gawron, L. J., et al., "Scanned-Image	1991	AT&T publication reports on improved
Technologies Bring New Ways to		subjects, only speech processing is of
Conduct Business," AT&T Technology,		interest and it is not pertinent.
Volume 6, Number 4, 1991 (A21713611)		
(Supplemental VII)	Fall 1974	Cociety manage on an adventional interfere
Gawronski, Jane Donnelly, et al., "Audio	Fall 1974	Society paper on an educational interface
Response System to Practice Mental		program "dial-a-drill" for student use.
Computation Skills," Proceedings of the		
Digital Equipment Computer Users Society, Volume 1, Number 2, Fall 1974,		
pp.633-636 (A21725979)		
(Supplemental VII)		
Gawrys, G. W., "ISDN: Integrated	1986	AT&T paper on ISDN allows voice mail,
Network/Premises Solutions for	1900	call routing, transaction storage, etc.
Customer Needs," IEEE, 1986, pp. 1.1.1-		Can rouning, transaction storage, etc.
1.1.5 (A21725555)		
(Supplemental VII)		
Gaylord, D. M., "Better Health for	July-August	Bell Labs "Record" article on a hospital
Hospitals with DIMENSION 2000 PBX,"	1981	PBX.
Bell Laboratories Record, July-August		
1981, pp. 170-173 (A21724371)		
(Supplemental VII)		
Gerald, Jeannette A., "A Voice Response	Unknown	Article describes a telephonic information
System for General Aviation Pilots,"		service for pre-flight information.
Article Source Unknown (A21708877)		
(Supplemental VII)		
Gibson, Stanley, "Audix Upgrades	December 15,	Story on AT&T "Audix" voice mail system.
Include Messaging, Billing,	1986	
Management," Computerworld,		
December 15, 1986, p. 29 (A21707568)	1	

Title of Article/Publication	Date	Comment
(Supplemental VII)		
Gibson, Stanley, "Octel Links Voice Mail	December 8,	Octel's PBX integration device to interface
System to Rolm PBX," Computerworld,	1986	PBX.
December 8, 1986, p. 42 (A21707564)		
(Supplemental VII)		
Gillon, A. C., et al., "Voice Power Gives	1989	AT&T material on voice messaging
You Voice Messaging - And Then		equipment.
Some," AT&T Technology, Volume 4,		
Number 2, 1989 (A21712712) repeated		
(A21724818)		
(Supplemental VII)		
Gitten, L. J., et al., "5ESS System	May 1984	Story on AT&T's 5ESS re basic
Evolution," ISS Florence, Session 41 A,	1004	capabilities.
Paper 1, May 1984 (A21725543)		Capabilities.
(Supplemental VII)		
Goecke, D., et al., "A Software	May 1984	Italian proceedings paper sufficients
Engineering Approach Applied to the	IVIAY 1904	Italian proceedings paper outlining a process for development of a software
		driver PBX (PABX).
Complete Design and Production Process of Large Communication		diver PBA (PABA).
Systems Software," ISS '84 Florence,		
Session 13 C, Paper 1, May 1984		
(Supplemental VII)	1 1 04 4000	
Goldstein, Mark L., "Send A Message.	July 21, 1986	Story on companies using voice mail and
Now! New Digital Networks Can Give		electronic mail.
Companies a Competitive Edge,"		
Industry Week, July 21, 1986, p. 43		
(A21706347)		
(Supplemental VII)		
"Gotcha!," Edited by John A. Conway,	March 10, 1986	Forbes report on predicted use of voice
Forbes, March 10, 1986, p. 9		mail.
(A21708345)		
(Supplemental VII)		
Gottlieb, Dan, "Does the Bell Toll for	December 13,	Article on AT&T vs. independents over
Voice/Data Independents?," Purchasing,	1984	voice mail and related equipment.
December 13, 1984, pp. 103-108		
(A21724641)		
(Supplemental VII)		
Grau, Jeff, "IBM Hints at Entering Voice	December 11,	Story on IBM voice response unit and
Response Market in 1992," Article	1990	related aspects.
Source Unknown, December 11, 1990		
(A01346366)		
(Supplemental VII)		
Greene, James E., et al., "Voice	January 1986	Report on Georgia State University
Response System Sticks to the Script		program of "touch-tone" registration, allows
and Saves Time, Money and Tempers		access with an access code then accepts
for University Students and		prompted course numbers to register.
Administrators," Communication Age,		
January 1986 (A21724080)		
(Supplemental VII)		
Grumhaus, Audrey, "What's New in	November 16,	Story on accessibility of services as:
	1986	reconnect, call forwarding, call tracing,
Telephone Service: Some Bad News for	1 1300	

Title of Article/Publication	<u>Date</u>	Comment
November 16, 1986 (A21725855)		
repeated (A21725857)		
(Supplemental VII)		
Grunbaum, Rami, "Genesis Electronics	March 10, 1986	Story on voice mail of Genesis Electronics.
Heeds the Voice Mail Calling," The		·
Business Journal – Sacramento, Volume		
2, Number 49, March 10, 1986		
(A21708341)		
(Supplemental VII)		
Gunderson, Gary W., "Computer	February 4,	Story on the potential of 911 and ANI.
Consoles; Can Your Community Save	1987	, , , , , , , , , , , , , , , , , , , ,
Lives when Seconds Count?," Business		
Wire, February 4, 1987 (A21707772)		
(Supplemental VII)		
Hafner, Katherine, "Hello Voice Mail,	June 16, 1986	Story on benefits of voice mail.
Goodbye Message Slips," Business	00110 10, 1000	Story on Bonome of Voice main
Week, June 16, 1986 (A21708507)		
(Supplemental VII)		
Hafner, Katherine, "System 85 Targets	September 5,	Introduction story on AT&T's new PBX.
Leading-Edge Users: NBI,"	1983	introduction story on AT&T 3 New T BX.
Computerworld, September 5, 1983, p.	1303	
53 (A21724580)		
(Supplemental VII)		
Hafner, Katherine, "Temporary	May 2, 1984	Story on L.A.'s Olympic games telephone
Telephones," Network World, May 2,	Way 2, 1904	service from AT&T with messaging.
1984 (A21708739)		service from AT&T with messaging.
(Supplemental VII)		
Hafner, Katherine, "The Venture Capital	August 1, 1984	Stant on ventures in telephone technology
Adventure," Network World, August 1,	August 1, 1964	Story on ventures in telephone technology, including VMX, Inc.
1984 (A21708837)		including vivix, inc.
,		
(Supplemental VII)	March 16, 1987	Stant on union mail upora (VMV)
Hamel, Bob, "Voice Messaging; VMX	March 16, 1967	Story on voice mail users (VMX).
Gives Firms Edge," Network World,		
March 16, 1987 (A21707864)		
(Supplemental VII)	A	ATOT DDV
Hanson, Robert J., "The DSC-2000	August-	AT&T PBX system is programmed for
VoiceServer System," Speech	September	enhanced operations.
Technology, August-September 1984,	1984	
pp. 55-65 (A21708818)		
(Supplemental VII)	1000	
Herits, E., et al., "A New Look for the	June 1980	Article on computerized white pages and a
White Pages," Bell Laboratories Record,		release of new products, e.g. chip,
June 1980 (A21709547)		connector, etc.
(Supplemental VII)		
Hardy, James O., et al., "Handling Coin	September	Bell "Record" article on automating coin
Toll Calls – Automatically," Bell	1980	calls.
Laboratories Record, September 1980,		
pp. 256-262 (A21710422)		
(Supplemental VII)		
Harrar, George, "Interview: Ed Landry;	April 14, 1986	Stories on voice mail and computerized
Making Office Connections at John		telephone systems.
Hancock," Computerworld, April 14,		

Title of Article/Publication	Date	Comment
1986, p. 63 (A21708404)		
(Supplemental VII)		
Hasui, Kouya, et al., "Man-Machine	July 1986	Article on "man-made" interfaces, work
Interfaces in Office Communication	1,	stations.
Systems," IEEE Communications		Stations.
Magazine, Volume 24, Number 7, July		
1986, pp. 18-23 (A03701435)		
(Supplemental VII)		
Coover, Edwin R., "Voice-Data	July 1986	Article on PBX operations.
Integration in the Office: A PBX	July 1900	Article of the by operations.
Approach," IEEE Communications		
Magazine, Volume 24, Number 7, July		
1986, pp. 24-29 (A03701442)		
(Supplemental VII)	4000	ATOT To the old on the land
Haszto, E. D., et al., "ALLIANCE	1988	AT&T Technology article on
Teleconferencing Services Boost		teleconferencing "alliance 2000" service –
Business Efficiency," AT&T Technology,		building and call processing for MTs,
Volume 3, Number 1, 1988 (A21724796)		WATS, and 800 calls.
(Supplemental VII)		
Heberle, W., "Accumulation of the	September	Paper on human factors in
Signals when Using the Pushbutton	1970	telecommunication.
Telephone for Data Entry," Proceedings		
of the 5 <sup>th</sup> International Symposium on		
Human Factors in Telecommunications,		
September 1970 (A21725766)		
(Supplemental VII)		
Heffron, W. G., et al., "Transaction	December	AT&T article on a transaction network, to
Network Service," The Bell System	1978	accommodate transaction terminals.
Technical Journal, Volume 57, Number		
10, December 1978, pp. 3331-3347		
(A21725986)		
(Supplemental VII)		
Henricks, Mark, "DSC Makes Japanese	March 17, 1986	Story on alliance between DSC Comm.
Connection," Dallas-Fort Worth Business		Corp. and Mitsubishi Corp.
Journal, Volume 9, Number 30, March		
17, 1986 (A21708347)		
(Supplemental VII)		
Hillhouse, Joseph, "PABX, the Hub:	November 15,	Story on PABX possibilities.
Keeping Communications on Track,"	1984	
Computer Decisions, Volume 16,		
November 15, 1984, p. 84 (A21708974)		
(Supplemental VII)		
Hindlin, Eric, "PBXs Becoming Practical	March 17, 1987	Story on PBX systems.
Alternative to LANs," PC Week, Volume		
4, March 17, 1987, p. C16 (A21707870)		
(Supplemental VII)		
Hird, E. V., "Party Line Cost Cutters,"	May 1, 1986	Story on party line service.
Telephone Engineer & Management,	151dy 1, 1500	Citary on party mile service.
Volume 90, May 1, 1986, p. 51		
(A21708442)		
, ,		
(Supplemental VII)	Contombas 00	Stony on interface information and artists
Hollitz, John, "Giving Information without	September 29,	Story on interface information operation.

<u>Title of Article/Publication</u>	<u>Date</u>	Comment
Human Intervention," The Business	1986	
Journal - Sacramento, Volume 3,		
Number 26, Section 1, September 29,		
1986, p. 25 (A21706505)		
(Supplemental VII)		
"Home Shopping Network Halts Talks,"	February 19,	News piece on "home shopping" per
The Washington Post, February 19, 1987	1987	telephone.
(A21707804)		
(Supplemental VII)		
"The HORIZON Call Management	January 1983	Article on PBX systems.
System Tackles High Call Volume		
Demands," Telecommunications Product		
Review, January 1983 (A21724553)		
(Supplemental VII)		
Horton, L. A., et al., "AT&T Systems Link	1992	AT&T technology article on system at
the University of Maryland," AT&T		University of MD including voice mail.
Technology, Volume 7, Number 2, 1992		
(A21712897) repeated (A21725512)		
(Supplemental VII)		
Horwitt, Elisabeth, "AT&T Enhancements	June 16, 1986	Story on digital PBX enhancements by
Fill Gaps in System 75 Digital PBX,"	00.10 10, 1000	AT&T.
Computerworld, June 16, 1986		
(A21708505)		
(Supplemental VII)		
Horwitt, Elisabeth, "Rolm to Unveil Low-	June 2, 1986	Story on Rolm's PBX.
End PBX: Digital System Bucks Feature-	04.10 2, 1000	Otony on thomas a 2711
Rich Trend," Computerworld, June 2,		
1986, p. 8 (A21708489)		
(Supplemental VII)		
Howitt, Doran, "Boom For Voice Mail	October 29,	Article on aspects of voice mail.
Systems," InfoWorld, October 29, 1984,	1984	, a a si
pp. 37-38 (A21708940)	1001	
(Supplemental VII)		
Hubbard, Thomas Leo, "Richardson:	February 1987	Story on Richardson, Texas, Mentions
High-Tech Prosperity," Dallas Magazine,		MCI.
Volume 66, Number 2, February 1987		
(A21707741)		
(Supplemental VII)		
Huber, K. M., et al., "Getting the	1986	AT&T Technology article on voice mail,
Message with UMS," AT&T Technology,		800 service, automation.
Volume 1, Number 1, 1986 (A21708123)		
(Supplemental VII)		
Swann, L., "Universal Operations	1986	AT&T Technology article on voice mail,
Systems – Integrated Building Blocks,"		800 service, automation.
AT&T Technology, Volume 1, Number 1,		and the state of t
1986 (A21708141)		
(Supplemental VII)		
Hunter, John J., "Telephone Tag	July 13, 1987	Story on voice mail.
Alternative: Voice Messaging Unshackles	July 10, 1307	City on voice mail.
Users from Traditional Telephone		
Limitations," Network World, July 13,		
1987 (A21714278)		

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Title of Article/Publication	Date	Comment
October 1986, p. 158 (A21706523)		
(Supplemental VII)		
"Integratec's Niche is Collecting on	August 10,	Voicelink's voice mail at Barclay's bank,
Delinquent Bank Card Accounts,"	1988	also Dialogic Processors.
American Banker, August 10, 1988, p. 22		
(A21724771)		
(Supplemental VII)		
"Card Titan Sees Gold in Electronic	July 1996	Story on FDC re: banking.
Commerce," Financial Service Online,	,	,
July 1996, p. 8 (A21724775)		
(Supplemental VII)		
"International Communications Network	June 1984	Story on VMX voice mail.
Service Installed by Commercial Cable,"	000	l story on this voice main
The Magazine of Bank Management,		
June 1984, p. 126 (A21708770)		
(Supplemental VII)		
"International Information Network	November 7,	Story: Int'l Info. Net., Inc. acquire
Acquisition," PR Newswire, November 7,	1985	Megaphone Co.
1985 (A21708093)	1905	Wegaphone Co.
(Supplemental VII)		
"International Information Network	December 16,	Int'l Info. Net, Inc. reaches agreement with
Agreement," PR Newswire, December	1985	British Telecom.
16, 1985 (A21708117)	1905	Dittisit relection.
(Supplemental VII)	•	
"International Information Network	February 12,	Int'l Info. Net. Inc. gets financing.
Announces Agreements," PR Newswire,	1986	int into Net. Inc. gets infancing.
February 12, 1986 (A21708309)	1900	
(Supplemental VII)		
"International Information Network	February 25,	Int'l Info. Net Inc. gets weather channel.
Contract," Article Source Unknown,	1986	int into. Net inc. gets weather channel.
February 25, 1986 (A21708312)	1900	
(Supplemental VII)		
"International Information Network	December 0	Intil Info Not Inc. Ioana manay
	December 9, 1985	Int'l Info. Net. Inc. loses money.
Earnings," PR Newswire, December 9,	1900	
1985 (A21708110)		
(Supplemental VII)	October 22.	Intil lafe. Not les apple financies
"International Information Sets Financing		Int'l Info. Net Inc. seeks financing.
Program," PR Newswire, October 22,	1985	
1985 (A21708064)		
(Supplemental VII)	Manah 0, 400C	Intil lafe. Net lag. and weather about a
Press Release, Communications Daily,	March 3, 1986	Int'i Info. Net Inc. got weather channel.
Volume 6, Number 41, March 3, 1986, p.		
11 (A21708337) repeated (A21706387)		
(Supplemental VII)	A	Letter Net action of the second
"Megaphone Intl Wins Calif. Lottery	August 4, 1986	Int'l Info. Net got weather channel.
Contract," PR Newswire, August 4, 1986		
(A21706387)		
(Supplemental VII)		· · · · · · · · · · · · · · · · · · ·
"Introducing Voice Quote," The	October 9,	News piece on voice stock quotes.
Washington Post, October 9, 1986	1986	
(A21707805)		
(Supplemental VII)		

Title of Article/Publication	Date	Comment
Press Release, Communications Daily,	September 30,	Story on AT&T changes for "900" lines.
Volume 6, Number 189, September 30,	1986	
1986, p. 7 (A21706510)		
(Supplemental VII)		
Press Release, Communications Daily,	September 30,	FCC ruling reports include denial of AT&T
Volume 6, Number 189, September 30,	1986	deposit requirements for Dial Info, Inc.
1986 (A21706511)		
(Supplemental VII)		
Jenkins, Avery, "Iowa State Launching	February 3,	Story on Iowa State University PBX and
Campus Wide Network," PC Week,	1987	system.
Volume 4, February 3, 1987, p. C14		
(A21707767)	•	
(Supplemental VII)		
Jerman, Max, et al., "A CAI Program for	December	Article on telephone "Dial-a-Drill" for
the Home," Educational Technology,	1971	student quiz.
December 1971, p. 49 (A21725984)		·
(Supplemental VII)		
Johnson, Eric, "Analysts Say that Voice-	January 1984	Story: Predictions for voice mail (VMX).
Message Will Talk up \$1 Billion," Data		
Communications, January 1984, p. 50		
(A21708551)		
(Supplemental VII)		
Johnson, J. W., et al., "Integrated Digital	May 1984	AT&T paper on general features of 5ESS
Services on the 5ESS™ System," ISS '84		system.
Florence, May 1984, Session 14 A,		
Paper 3, Pages 1-8 (A21725525)		
(Supplemental VII)		
Johnston, David, "'Pay Radio' Tunes in	August 24,	Paper on a 976 promotion.
Charities, Turns off Some Consumer	1986	
Groups," Los Angeles Times, Part 6,		
August 24, 1986, Page 1 (A21706399)		
(Supplemental VII)		
Excerpt from Journal of Information	1981	Apparently, Japanese article on data
Processing Society of Japan (in		retrieval by phone.
Japanese), Volume 23, 1981		
(A21724246)		
(Supplemental VII)		
Excerpt from Journal of the Institute of	1977	Apparently, Japanese announcement
Electronics and Communication		system.
Engineers of Japan (in Japanese),		
Volume 60, Number 10, 1977		
(A21725080)		
(Supplemental VII)		
Kaplan, Jeffrey M., "4 <sup>th</sup> Generation:	October 6,	Story on AT&T divestiture consequence.
Lacking," Network World, October 6,	1986	
1986, p. 38 (A21706646)		
(Supplemental VII)		
Kaplan, Jeff, "The Uncertain Future of	March 14, 1984	Story on PBX systems.
Centrex," Network World, March 14,		
1984, p. 17 (A21708640)	[	
(Supplemental VII)		
Karpinski, Richard, "IBM Offers Voice	August 5, 1991	News piece regarding IBM offering voice

Title of Article/Publication	<u>Date</u>	Comment
Processing Line," Telephony, August 5,		processing.
1991 (A01346377)		
(Supplemental VII)		
"Katz Scratch Fever," Telemedia News		Article on anti-Katz patent portfolio.
and Views, Date Unknown (A01331216)		F F F F
(Supplemental VII)		
Katzel, Jeanine, "Selecting and Installing	March 3, 1983	Story: A PBX at a rolling mill.
a Plant PBX System," Plant Engineering,		
Volume 37, March 3, 1983 (A21713341)		
(Supplemental VII)		
Kawakami, Tokuhiro, et al., "Speaker	1986	Apparently, Japanese article on speech
Independent Speech Recognition and		recognition and audio response.
Audio Response System and Facsimile		rooogrimorrana addio rooponico.
Response System," NEC Technical		
Journal, Volume 39, Number 7, 1986, pp.		
54-79 (A21708159)		
(Supplemental VII)		
Kelleher, Joanne, "Users; Mastering	September 24,	"Computer World" stories: Ethernet, data
DEC," Computerworld Extra!, September	1986	nets, and company experiences.
24, 1986, p. 61 (A21706475)	1300	Tiets, and company expenences.
(Supplemental VII)		
Kemezis, Paul, "The Shared Tenant-	September	Story on PBX sharing.
Services Debacle and Lessons from it"	1986	Story of F BX sharing.
Data Communications, September 1986,	1300	
p. 94 (A21706444)		
(Supplemental VII)		
Koike, H., et al., "An Office-Use Voice	June 1983	International symposium on human factors
Storage System with Elaborate User's	Julie 1905	in telecommunications.
Operativity," Proceedings of the Tenth		in telecommunications.
International Symposium on Human		
Factors in Telecommunications, June		
1983, pp. 197-203 (A21725793)		·
(Supplemental VII)		
Koike, Tsunehiko, et al., "Parcor-Type	Unknown	Apparently, article on Japanese ARU.
Audio Response Unit (in Japanese),"	Olikilowii	Apparently, article on Sapanese Arto.
Article Source Unknown (A21724841)		
(Supplemental VII)		
"Kokusai Voicemail to Start International	March 10, 1987	Start on a voice mail network
Voicemail Service," COMLINE Daily	March 10, 1907	Story on a voice mail network.
News Telecommunications, March 10,		
·		
1987 (A21707861) (Supplemental VII)		
Kolodziej, Stan, "Where is the Electronic	October 16,	Story on status of voice mail.
Messaging Explosion?," Computer	1985	Story of status of voice mail.
• • • • • • • • • • • • • • • • • • • •	1900	
World, October 16, 1985, p. 21		
(A21708056)		
(Supplemental VII)	August 4 1006	Story on Rolm and Octel voice mail.
Korzeniowski, Paul, "Voice Messaging;	August 4, 1986	Story on Rollin and Octer voice mail.
ETS Demise Hits Rolm, Octel Users,"		
Network World, August 4, 1986, p. 1		
(A21706390)		
(Supplemental VII)	L	

Title of Article/Publication	Date	Comment
Kylin, J. C. et al., "Benefits of Integrating	June 1979	Paper on stored program network plan.
Data Bases into the SPC Network," ICC		
'79 Conference Record, Volume 1, June		
1979 (A21726001)		
(Supplemental VII)		
Lawson, Michael, "AT&T Leaves 'Super-	September	Story on AT&T PBX and 5ESS features.
PBX' money on the table for Northern	1987	
Telecom," Data Communications,		
September 1987 (A21712210)		
(Supplemental VII)		
Lazarus, George, "Pepsi Also Won the	January 30,	News article on Pepsi superbowl dial in.
Super Bowl," Chicago Tribune, January	1987	
30, 1987 (A21707647)		
(Supplemental VII)		
Lee, Linda, et al., "Meridian SL	1985	Article on information services for company
Information Services," Telesis, 1985, pp.	.555	use.
13-19		
(Supplemental VII)		
Leibowitz, Ed, "The Wonder Years:	April 1990	Story regarding ACDs with ANI and DNIs.
Intriguing ACD Trends for the 1990s,"	, , , , , , , , , , , , , , , , , , , ,	Otory regulating / 1005 With Airi and Divis.
Teleconnect, Volume 8, Number 4, April		
1990, p. 84 (A21712064)		
(Supplemental VII)		
Levin, David, "Private Branch	August 1987	Story on PBX competition.
Exchanges: The Best Time to Shop	August 1907	Story on F BX competition.
Might Be Right Now," Data		
Communications, August 1987, p. 100		
(A21714315)		
(Supplemental VII)		
Lineback, J. Robert, "VMX Girds for a	May 12, 1986	"Electronics" article on VMX voice mail.
Fight in Market it Pioneered," Electronics,	Way 12, 1000	Electronics article on vivix voice mail.
May 12, 1986, pp. 55-56 (A21708453)		
(Supplemental VII)		
Lukeson, David R., "CLASS: The Smart	October 1984	Paper on telephone advances regarding
Local Telephone Network," Proceedings	October 1504	features as: recall, code ringing, caller id.,
of the International Congress on		etc.
Technology and Technology Exchange,		
October 1984, pp. 100-103 (A21725864)		
(Supplemental VII)		
"The LUMA Visual Telephone,"	July 1986	Article on visual telephone terminal.
Telecommunications Product Review,	July 1900	7 a dole on visual telephone terminal.
Volume 13, Number 7, July 1986		
(A21706313)		
(Supplemental VII)		
Lyman, Guy C., III, "Voice Messaging	August-	Article on voice messaging applications.
Comes of Age," Speech Technology,	September	7 taloic on voice messaging applications.
August-September 1984, pp. 45-49	1984	
(A21724634)	1307	
(Supplemental VII)		
Mankin, Eric, "Playing TV Telephone:	April 24, 1989	Story on FDR services.
New System Opens Door for Audience		Otory of 1 DIX services.
Participation," Electronic Media, April 24,		
Farticipation, Electronic Media, April 24,	L	

Title of Article/Publication	Date	Comment
1989 (A01331389)		
(Supplemental VII)		
Marino, P. J., et al., "AT&T	1985	IEEE paper on AT&T ISDN.
Communications ISDN Plans," IEEE,		
1985, pp. 247-251 (A21723894)		
repeated (A21725560)		
(Supplemental VII)		
"Marubeni to Install Voice-Box-Mail	March 13, 1984	Story: Japanese voice mail.
System," Japan Economic Journal,	·	
March 13, 1984, p. 9 (A21708639)		
(Supplemental VII)		
Mason, G. C. W., "Use of Recorded	September	Article on U.K. announcement system
Announcements for Guidance of Users of	1977	(telephone).
Telecommunications Networks,"		(13.15)
Proceedings of the Eighth International		
Symposium on Human Factors in		
Telecommunications, September 1977,		
pp. 257-262 (A21725784)		
(Supplemental VII)		
Massey, David K., "Voicetek Hears	July 20, 1987	Story on Voicetek's success until voice
Sweet Success with Market Strategy,"	30., 20, 100,	mail.
Boston Business Journal, Volume 7,		1116.11.
Number 21, Section 1, July 20, 1987,		
Page 6 (A21714290)		
(Supplemental VII)		
"The Master of Trivia," The Sporting	August 19,	News piece on Giants "Dial Info" telephone
News, August 19, 1985 (A21706671)	1985	service.
(Supplemental VII)	1000	351 1155.
Matheson, David, "ISDN: The	May 1990	Telemarketing article on ISDN, features as
Technology has Discovered its Purpose,"	1	when used with ANI, DNIS, and VRU as for
Telemarketing, May 1990 (A40002414)		dealer locations, etc.
(Supplemental VII)		dealer locations, etc.
Maxemchuk, N. F., "An Experimental	October 1980	Bell "Journal" article on speech storage.
Speech Storage and Editing Facility,"	0010001 1300	ben bearnar article on special storage.
The Bell System Technical Journal,		
volume 59, Number 8, October 1980		
(A21724241)		
(Supplemental VII)		
Mearns, Allison B., et al., "Calling Card –	May-June 1982	Bell "Record" article on digital input, as for
Don't Tell It-Dial It," Bell Laboratories	indy dulic 1902	credit card numbers to call.
Record, May-June 1982, pp. 117-119		Stock odia namboro to odii.
(A21709811) repeated (A21709808)		
(Supplemental VII)		
Michaelson, Marlene, "Business,	September 8,	News piece on dialing for information.
Services Use 'Dial A' Formats," Contra	1986	Note: "format" refers to the use of "dial a"
Costa Times, September 8, 1986	1300	services.
(A21707858)	İ	00111003.
(Supplemental VII)		
Mier, Edwin E., "A Big Bonanza in Little	June 1984	Story on the increased use of smaller
Switches," Data Communications, June	Julie 1304	digital PBX units.
		uigitai FBA utilits.
1984, p. 68 (A21708764)		
(Supplemental VII)		

Title of Article/Publication	Date	Comment
Miles, J. B., "AT&T System Upstages its	February 27,	Story announcing AT&T's equipment.
FTS Rivals at Shows, The FTS 2000	1987	
Telecommunications Contract,"		
Government Computer News, Volume 6,		
Number 4, February 27, 1987, p. 1		
(A21707808)		
(Supplemental VII)		
Miles, J. B., "Bypass Starts to Soar; More	November 5,	Story on bypassing the PSTN.
Businesses are Avoiding the Public	1985	otory on bypassing the Forty.
Phone Network as New Technologies	1000	
Surface and Telecomm Costs Rise,"		
Computer Decisions, Volume 17,		
November 5, 1985, p. 82 (A21708087)		
(Supplemental VII)		
Miles, J. B., "Network Control Under	July 15, 1986	Story on internal company networks.
	July 13, 1960	Story on internal company networks.
Control; Corporations Seeking Unified Network Management Systems May Find		
Hope in Several New Offerings,"		
Computer Decisions, Volume 18, July 15,		
1986, p. 70 (A21706340)		
(Supplemental VII)	1.1.4000	A
Excerpt from Modern Office Technology,	July 1986	Appears to be part of a story on voice mail.
July 1986 (A21706315)		
(Supplemental VII)		
Moore, Steve, "Project Management;	August 25,	Story on problems of Univ. of Colorado
Anatomy of a Cutover, Part 1" Network	1986	telephone system.
World, August 25, 1986, p. 26		
(A21706408)		
(Supplemental VII)		
Moore, Steve, "Project Management;	September 1,	Story on problems of Univ. of Colorado
Anatomy of a Cutover, Part 2" Network	1986	telephone system.
World, September 1, 1986, p. 35		
(A21706447)		
(Supplemental VII)		
Press Release, Data Communications,	August 1984	Story on MCI lightwave network.
August 1984, p. 58 (A21708825)		
(Supplemental VII)		
"MTV-Networks Signs with American	March 28, 1989	Story on FDR agreement with MCI.
Express Affiliate FDR Interactive		
Technologies," Business Wire, March 28,		
1989 (A01331393)		
(Supplemental VII)		
"NAB in the 'Big D.," Broadcasting,	March 30, 1987	Story on NA of B (National Association of
Volume 112, March 30, 1987, p. 83		Broadcasters) convention.
(A21707892)		
(Supplemental VII)		
"National Railways' Seat Reservation	1975	Appears to be a story on Japanese
System by Touch Tone Telephone,"		Railway telephone ticket system.
Electrical Communication Facilities,		
Volume 38, Number 339, 1975		
(A21724984)		
(Supplemental VII)		
_ ( P P 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	1	ļ <u> </u>

Title of Article/Publication	Date	Comment
"Newly Formed company Assigned	October 17,	Story FDR assigns patents to Katz.
Several Interactive Technology Patents	1994	
Following the Settlement of Multimillion		
Dollar Patent Lawsuit," Business Wire,		
October 17, 1994 (A01331386)		
(Supplemental VII)		
"New AT&T Device Made in Columbus,"	September 7,	News piece on AT&T Conversant made in
Columbus Citizen Journal, September 7,	1985	Ohio.
1985 (A01354693)		
(Supplemental VII)		
"New Products Telecommunications,"	April 1983	"Sound & Communications" article on voice
Sound & Communications, Volume 28,	7 (4) 11 1000	mail.
Number 12, April 1983, pp. 84-85		Thum.
(A21713354)		
(Supplemental VII)	]	
"New Systems Stem Losses from Credit	August 10,	Apparently a story on FDR.
Card Debt; Technology Streamlines	1988	Apparently a story of 1 Dix.
Phone Contacts," American Banker,	1900	
August 10, 1988 (A21724777)		
(Supplemental VII)		
"New Voice Processing Products Mean	Unknown	Story on IBM voice processing and
Improved Customer Service," Article	Oliknown	messaging.
		messaging.
Source Unknown, (A01346357)		
(Supplemental VII)	1	Cton on ATRT Information Customs
Newton, Harry, "AT&T Information	January 1984	Story on AT&T Information Systems.
Systems One Year Later," Office		
Administration and Automation, Volume		
45, January 1984, p. 37 (A21708557)		
(Supplemental VII)	1004	(F. 1) (P. 4' 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Newton, Harry, "Dumb Smart Switches,"	May 1991	"Teleconnect" article by Harry Newton on
Teleconnect, May 1991, pp. 14-18		PBXs, etc.
(Supplemental VII)		
Newton, Harry, et al., "Send Us Your	October 1996	Article seeking prior art versus Katz
Pre-1989 Brochures," Computer		portfolio, refers to Matthews voice mail
Telephony, October 1996, pp. 16-26		patent 4,580,012.
(A01331210)		
(Supplemental VII)		
Nishikado, Iwamasa, et al., "Voice	1984	"Review" paper on voice storage and
Storage System for Centralized		delivery in telephone applications.
Extension System," Review of the		
Electrical Communication Laboratories,		
Volume 32, Number 6, 1984, pp. 1010-		
1018 (A21725924)		
(Supplemental VII)		
Press Release, The American Banker,	October 20,	Story on voice mail in banking applications
October 20, 1986, p. 13 (A21706658)	1986	and related.
(Supplemental VII)		
"Northern-Telecom-2; (NT) Northern	February 18,	Story on "Northern Telecom's" software
Telecom Announces Software Feature	1987	package for control, etc. per ANI, etc.
Package," Business Wire, February 18,		
1987 (A21707802)		
	i contract of the contract of	

Title of Article/Publication	Date	Comment
"No. Telecom Upgrades Digital PBX,"	April 30, 1984	Story on "Northern Telecom's" PBX.
Electronic News, Volume 30, April 30,		
1984, p. 63 (A21708708)		:
(Supplemental VII)		
Nowogrocki, Jim, "City, County Spend	August 4, 1986	Story on ANI in 911 applications.
About \$ 1 Million on 911," St. Louis		
Business Journal, Volume 6, Number 43,		
Section 3, August 4, 1986, p. 1C		
(A21706393)		
(Supplemental VII)		
"Office Automation Advances 'White	March 1986	Story on office automation including voice
Collar' Productivity," Dun's Business		mail.
Month, Volume 126, March 1986, p. 59		
(A21708336)		
(Supplemental VII)		
The Official Proceedings of Speech	April 1985	Conference on voice input and output, e.g.
Tech '85, Media Dimensions, Inc., April		simulated speech technology.
1985, Cover and General Information		
Pages		
(Supplemental VII)		
Excerpt in Japanese, Article Reference	Unknown	Japanese article, may be related to article
Unknown (A21724849)		on I.D. card transaction set.
(Supplemental VII)		
Press Release, PR Newswire, May 9,	May 9, 1986	Story on pay-per-view.
1986 (A21708451)		
(Supplemental VII)		
Paznik, Megan Jill, "Voice Mail: Pitfalls	March 1987	Story on voice mail.
and Promises," Administrative		
Management, Volume 48, March 1987,	,	
p. 16 (A21707849)		
(Supplemental VII)		
"The PBX Marketplace; Private Branch	January 1986	Story on current PBX models.
Exchanges," Administrative		
Management, Volume 47, January 1986,		
p. 45 (A21708194)		
(Supplemental VII)		
"Peek at Future of 'General Hospital"	Unknown	News piece on dial a soap for updates.
Times-Picayune, Date Unknown		
(A21708536)		
(Supplemental VII)	Contamber 10	News piece on intendication of ATOT
Pelline, Jeff, "AT&T System Links Voice	September 10,	News piece on introduction of AT&T
to Computer," San Francisco Chronicle,	1985	Conversant System.
September 10, 1985 (A01354691)		
(Supplemental VII)	 	Charles DID human DDV anautics
"Perception Technology; (PCEP)	February 27,	Story on DID bypass PBX operation.
Perception Technology Announces ANI,	1987	
DID Enhancements," Business Wire,		
February 27, 1987 (A21707811)		
(Supplemental VII)	May 4004	Donor on a distributed hardware talanhare
Petit J. C., et al., "GALAXIE: Toward	May 1984	Paper on a distributed hardware telephone
Adaptive Distributed Control Systems,"		switching system with programmed
ISS '84 Florence, May 1984, Session 41	<u> </u>	modules.

Title of Article/Publication	<u>Date</u>	Comment
A, Paper 3		
(Supplemental VII)		
Petrosky, Mary, "Interactive Speech	September 23,	News articles, only one of which appears
System From AT&T's Business Unit,"	1986	related, that on AT&T's conversant I for
Infoworld, Volume 7, Issue 38,		speech.
September 23, 1986 (A21708029)		
(Supplemental VII)		
Pfister, George M., "The PBX: What	August 1, 1984	Story on criteria for PBX units.
Matters, What Doesn't," Datamation,		
Volume 30, August 1, 1984, p. 121		
(A21708831)		
(Supplemental VII)		
Plakias, Mark, "The Katz that Ate the	November	News piece on West-FDR settlement.
Canary," Telemedia News and Views,	1994	·
Volume 2, Number 11, November 1994		
(A01331037)		
(Supplemental VII)		
Pollack, Andrew, "Audiotex: Data By	January 5,	Story on new "Audiotex" voice mail system
Telephone," The New York Times,	1984	with information access.
January 5, 1984 (A21725850)		
(Supplemental VII)		
Portantiere, Nick, "AT&T Introduces	July 7, 1986	Story on AT&T's new PBX for data,
System 25 Digital PBX," Electronic		conferencing, etc.
News, July 7, 1986, p. 34 (A21706324)		
(Supplemental VII)		
Power of Attorney for USPA 5,109,404,		Katz Power of Attorney to PTO 6646-129.
Inventor Ronald A. Katz		
(Supplemental VII)		
Prell, E. M., et al., "The Changing Role of	May 1979	Paper automating work of telephone
the Operator," International Switching		operators.
Symposium, May 1979, pp. 697-703		
(A21725933)		
(Supplemental VII)		
Prince, Terry, et al., "A Telephone for the	September	Article on card-reading telephone
'Checkless' Society," Bell Laboratories	1972	instrument from Bell Labs.
Record, September 1972, pp. 249-253		
(A21725647)		
(Supplemental VII)		
"Profit from Impulse Pay-Per-View,"	July 14, 1986	"Telephony" advertisement on Science
Advertisement for Science Dynamics		Dynamics Corp.'s Pay-per-view.
Corporation, Telephony, July 14, 1986		
(A21706337)		
(Supplemental VII)		
"Prudential Insurance Mortgage by	February 19,	Story on Prudential's "Mortgage by phone"
Phone Program," PR Newswire,	1986	program (representatives).
February 19, 1986 (A21708310)		
repeated (A21708311)		
(Supplemental VII)		
Pulford, Jack, "Aurora System is Built to	August 1, 1984	Story: Alberta system has 9000 mobile
Grow," Telephone Engineer &		subscribers with ANI, call forward, etc.
Management, Volume 88, August 1,		
1984, p. 78 (A21708841)	[	

Title of Article/Publication	<u>Date</u>	Comment
(Supplemental VII)		
Putnam, Jane, "Winners," Contra Costa Sun, August 14, 1985 (A21706705) (Supplemental VII)	August 14, 1985	Article on Dial Giants Baseball – no detail.
"Putting an End to Telephone Tag," ABA Banking Journal, February 1987, (A21707747) (Supplemental VII)	February 1987	Voice messaging at Chase Manhattan.
Raack, G. A., et al., "Customer Control of Network Features," ISS '84 Florence, May 1984, Session 14 A, Paper 2 (A21725520) repeated (A21725717) (Supplemental VII)	May 1984	Paper on improved operations in AT&T system, including 800 service, software control, and call processing.
Raimondi, Donna, "AT&T Debuts Primary Rate for System 85," Computerworld, February 23, 1987, p. 41 (A21707806) (Supplemental VII)	February 23, 1987	Story: AT&T announces ISDN rate.
Rappaport, David M., "Voice Mail: Key Tool or Costly Toy," Data Communications, October 1986, p. 153 (A21706526) (Supplemental VII)	October 1986	Story: voice commentary.
"Redwood by Rolm," Telecommunications Product Review, Volume 13, Number 6, June 1986 (A21708487) (Supplemental VII)	June 1986	Article on Rolm PBX and features.
Rees, Norm, "Flexible Voice Response Software Speeds Development for Resellers," Speech Technology, March- April 1988, pp. 46-49 (Supplemental VII)	March-April 1988	Article on voice response software.
Results of Lexis Search Request "Call Interactive," Date of Search August 5, 1996 (A01331399) (Supplemental VII)	August 5, 1996	Report on FDC.
Rice, Valerie, "AT&T Enters Speech- Processing Business, Names First Customers," Investor's Daily, September 10, 1985 (A01354684) (Supplemental VII)	September 10, 1985	News piece on introduction of AT&T Conversant.
Riederer, S. A., "Conversant VIS Means Business," AT&T Technology, Volume 5, Number 4 (A21711986) (Supplemental VII)	Unknown	Articles on AT&T Conversant, voice mail, and speech processing.
Rangnekar, S., et al., "AT&T Voice Mail Service," AT&T Technology, Volume 5, Number 4 (A21711992) (Supplemental VII)	Unknown	An AT&T publication on voice mail.
"Ring System; Provides District of Columbia with Automatic Number and Location Identification to Aid in	August 7, 1986	Story on Washington, D.C., 911 System with ANI.

Title of Article/Publication	<u>Date</u>	Comment
Emergency Services Response,"		
Business Wire, August 7, 1986		
(A21706396)		
(Supplemental VII)		
Press Release, PR Newswire, March 3,	March 3, 1986	Story on ACD with ANI.
1986 (A21708338)		
(Supplemental VII)		
Rippeteau, Jane, "Smart' Way to Get	June 12, 1986	Story on company's voice mail.
Message Across," Financial Times, June		
12, 1986 (A21708502)		
(Supplemental VII)		
Rogers, Thomas, et al., "Scouting - A	August 9, 1985	Story on telephone baseball game.
Worthwhile Trivial Pursuit," The New		
York Times, August 9, 1985		
(A21707968)		
(Supplemental VII)		
"Rolm-Corp; Appoints Harvey and Zalisk	May 21, 1986	Story on Rolm voice mail management.
as Vice President," Business Wire, May		
21, 1986 (A21708472)		
(Supplemental VII)		
"Rolm-Corp; Introduces Redwood for	June 2, 1986	Story on Rolm voice mail expansion.
Branch Offices and Small Businesses,"		
Business Wire, June 2, 1986		
(A21708491)		
(Supplemental VII)		
"Rolm; Links PhoneMail to IBM VM	May 5, 1986	Story on Rolm voice mail.
Host," Business Wire, May 5, 1986		
(A21708447)		
(Supplemental VII)		
"Rolm Releases Four-Channel	January 28,	News piece on Rolm voice mail.
Phonemail Voice Message Unit,"	1985	
Computerworld, January 28, 1985		
(Supplemental VII)		
"Rolm; Rolm Announces PhoneMail	February 9,	Story on Rolm voice mail.
Network," Business Wire, February 9,	1987	
1987 (A21707775)		
(Supplemental VII)		
"Rolm; Rolm Awarded Major contract by	March 2, 1987	Story on Rolm contract with Columbia
Columbia University," Business Wire,		University.
March 2, 1987 (A21707855)		
(Supplemental VII)		
"Rolm; Rolm CBX II 9000AE Offers	February 3,	Story on Rolm larger PBX.
Abundant System Power for Applications	1987	
Growth," Business Wire, February 3,		
1987 (A21707765)		
(Supplemental VII)		
"Rolm; 15-Node Rolm System to be	November 11,	Story on Rolm voice mail at University of
Installed at University of Rochester,"	1985	Rochester.
Business Wire, November 11, 1985		
(A21708096)		
(Supplemental VII)		
Roman, David R., "Building Up Your	March 1984	Story: input devices for enhancing

Title of Article/Publication	<u>Date</u>	Comment
Personal Computer; Part II: Data-Input		computer interface.
Devices," Computer Decisions, Volume		·
16, March 1984, p. 110 (A21708630)		
(Supplemental VII)		·
Rosenbaum, Art, "This 'Maniac' Spreads	July 24, 1986	Article on Giants trivia telephone game.
His Loot Around," San Francisco		
Chronicle, July 24, 1986 (A21706875)		
(Supplemental VII)		
Rosinski, R. R., "Uses of AT&T Speech	unknown	AT&T article on speech processing re:
Processing Technology," AT&T		"Conversant", voice mail, and cellular.
Technology, Volume 5, Number 4, Date		The second secon
Unknown, pp. 4-5 (A21723940)		
(Supplemental VII)		
Ruhl, H. W., et al., "Sprein – A Voice I/O	unknown	German operation in 1985 to implement
Mail Order System with Telephone		mail order telephone automation –
Access," Article Source Unknown		preliminary.
(Supplemental VII)		prominiony.
Salter, Stephanie, "When the 'Say Hey	unknown	Article on Willie Mays re baseball and Dial
Kid' Met the 'Say How' Bunch," San	dilikilowii	Giants.
Francisco Examiner, Date Unknown		Olamo.
(A21706704)		
(Supplemental VII)		
Sanger, David E., "A Driving Force	January 15,	Story on IBM buying Rolm and personnel.
Leaves Rolm," The New York Times,	1986	Story of Ibivi buying Roll and personner.
January 15, 1986 (A21708200)	1900	
(Supplemental VII)		
Press Release, PR Newswire,	September 17,	Story on Greatneck, New York 911 system
September 17, 1985 (A21708022)	1985	with caller I.D.
(Supplemental VII)	1303	With Caner I.D.
Schindler, Paul E., Jr., "AT&T Talking up	September 16,	Article on speaker-independent speech
Conversant 1 Unit," Information Week,	1985	recognition in Conversant 1.
September 16, 1985 (A21723912)	1903	recognition in Conversant 1.
(Supplemental VII) Schinke, David, "Speaker Independent	1986	Story on AT&T speech recognition per
Recognition Applied to Telephone	1900	Conversant.
Access Information Systems," Speech		Conversant.
Tech '86, 1986 (A21718178)		
(Supplemental VII)	Sentember	Article on use of Apple computer to
Schulman, Roger, "TeleLearning: The	September 1984	implement telephone teaching.
Computer Brings the Classroom Home,"	1904	implement telephone teaching.
Family Computing, September 1984, pp.		
50-53 (A21708881)		
(Supplemental VII)	1000	Depar on interactive value response
Schumaker, Robert M., Jr., "Phone-	1992	Paper on interactive voice response
Based Interfaces: Research and		primarily regarding speech.
Guidelines," Proceedings of the Human		
Factors Society 36 <sup>th</sup> Annual Meeting,		
1992, pp. 1051-1055		
(Supplemental VII)	<del> </del>	Name along a IDM assistance and a single
Schwartz, Jeffrey, "IBM Enhances Voice	unknown	News piece on IBM voice processing.
Processing," Article Source Unknown		
(A01346375)		

Title of Article/Publication	<u>Date</u>	Comment
(Supplemental VII)		
Schwartz, P., et al., "JISTEL 500 – Time Division Exchange Including Voice and	May 1984	Paper on PABX for accommodating speech and data (French).
Data with Voice Messaging," ISS '84		
Florence, May 1984, Session 21 A,		
Paper 6, pp. 1-4		
(Supplemental VII)		
Scully, Sharon, "Product News; Saturn	May 19, 1986	Story on Siemens PBX accommodating
PBX Revamped," Network World, May		data.
19, 1986, p. 4 (A21708470)		
(Supplemental VII)		
Seaman, John, "Voice Mail: Is Anybody	May 1984	Story reporting on voice mail.
Listening?," Computer Decisions,		
Volume 16, May 1984, p. 174		
(A21708731)		
(Supplemental VII)		
"Select List of Telecommunications	August 1986	Story on companies active to provide
Providers," The Magazine of Bank		banking telephone system.
Management," August 1986, p. 32		
(A21706373)		
(Supplemental VII)	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Semilof, Margie, "High-End Voice/Data	March 31, 1986	Story on buying a voice-data PBX.
PBXs: Voicing Doubts about Data,"		,
Network World, March 31, 1986, p. 65		
(A21708354)		
(Supplemental VII)	December 40	Charu Charanaka & Datamaa Tallahiaata
"Senate Panel Meets Today; C&P Objects to House Decision Awarding	December 10, 1985	Story: Chesapeake & Potomac Tel objects to AT&T getting contract.
Telephone Contract to AT&T-IS,"	1905	to ATAT getting contract.
Communications Daily, Volume 5,		
Number 238, December 10, 1985, p. 4		
(A21708112)		
(Supplemental VII)		
Session Number 13 – Contemporary	April 28, 1985	Announcement of speech on Pay-per-view.
Developments in Addressability and Pay-	, p 20, 1000	The second of th
Per-View, Pay-Per-View Conference,		
April 28, 1985, p. 21 (A21707196)		
(Supplemental VII)		
Sharma, Ranjana, "PBX Users Benefit	October 17,	Story on ACD market.
from Vitality of ACD Market," Network	1988	
World, October 17, 1988 (A21712686)		
(Supplemental VII)		
Shaw, Peter, "The Need for BT's	April 1992, pp.	British paper on announcement services
Managed Information Services," British	2-6	offered by BT.
Telecommunications Engineering,		
Volume 11, April 1992, pp. 2-6		
(Supplemental VII)		
Shepherd, John, et al., "Managed	April 1992	Paper on BT's telephone managed service,
Recorded Information Services – An		historically beginning in 1985 with mass
Overview," British Telecommunications		answering.
Engineering, Volume 11, April 1992, pp.		
7-13		

Title of Article/Publication	Date	Comment
(Supplemental VII)	Date	Comment
Shimizu, Hiroshi, "Advanced Credit Call	October 1986	Paper on the implementation of a
Service," Japan Telecommunications	October 1300	Japanese credit-call telephone service
Review, October 1986, pp. 247-250		involving verification and billing.
(Supplemental VII)		involving vernication and billing.
Press Release, PR Newswire, December	December 5,	Stone on "Choudime" now not view involving
5, 1985 (A21708108)	1985	Story on "Showtime" pay-per-view involving ANI and 800 service (viacom).
(Supplemental VII)	1905	ANT and 600 service (viaconi).
	April 1006	Ctan, on the honefite of voice mail
Siragusa, Gail, "Voice Mail Takes Off:	April 1986	Story on the benefits of voice mail.
Send and Receive Messages by Phone,"		
Administrative Management, Volume 47,		
April 1986, p. 43 (A21708393)		
(Supplemental VII)	14	04
"Small Company Initial Public Offerings:	March 1984	Story on public offerings (small co. IPOs).
December 1983," Goldhirsch Group, Inc.,		
March 1984, p. 138 (A21708624)		
(Supplemental VII)	<u> </u>	(100)
Smith, Tom, "Production Use of ISDN	February 26,	Story on the use of ISDN.
Lives up to Expectations," Network	1990	
World, February 26, 1990 (A21712004)		
(Supplemental VII)		
Snow, Stephen A., "Consumers Show	October 19,	Story on automated call processing as
Strong Preference for Automated	1988	publicly accepted.
Telephone Call Processing," Business		
Wire, October 19, 1988 (A21724781)		
(Supplemental VII)		
"AT&T to Offer New Service," Reuter	November 21,	Story on AT&T 900 service.
Newswire, November 21, 1988	1988	
(A21724788)		
(Supplemental VII)		
"Soap Opera Updates Now Available in	May 28, 1984	Article on telephone soap updates.
Area," Contra Costa Times/TV, May 28,		
1984, p. 4 (A21708748)		
(Supplemental VII)		
"Something for Everyone at NAB's	March 23, 1987	Story reporting on recorders, cameras,
Equipment Exhibition," Broadcasting,		PBXs, workstations, etc.
Volume 112, March 23, 1987, p. 63		
(A21707873)		
(Supplemental VII)		
Song, D, et al., "System 12 Line and	May 1984	Italian paper on software driver switch with
Trunk Testing," ISS Florence, May 1984,		line and trunk tests.
Session 32 A, Paper 5, Page 1		
(Supplemental VII)		
"Special Information Tones Provide	November	Bell Labs has new "interactive" system for
Computer with Vital Call Data," Bell	1981	traffic planning.
Laboratories Record, November 1981		
(A21710768)		
(Supplemental VII)		
Staehler, R. E., "Toward a More	February 8,	Article on AT&T traffic service, as
Automated Network – TSPS	1982	automated coin calls, credit card calls, etc.
Enhancements Lead the Way,"		
Telephony, February 8, 1982, pp. 45-48		

Title of Article/Publication	<u>Date</u>	Comment
(A21725941)		
(Supplemental VII)		
"The Stamp of Approval for Voicemail,"	Unknown	Article on voice mail reporting on IBM
Article Source Unknown, (A21707760)		system at Ford Motor, etc.
(Supplemental VII)		
Stern, Aimee, "Cable Operators Fight	February 1987	Story on pay-per-view users.
Back; Pay-Per-View TV," Dun's Business		
Month, Volume 129, February 1987		
(A21707748)		
(Supplemental VII)	5	
Stewart, Alan, "Signaling Changes for	December 15,	Story on NATA trade show, mentions
Interconnects; NATA 86 Trade Show,"	1986	ISDN.
Telephone Engineer and Management,"		
Volume 90, December 15, 1986, p. 72		
(A21707569)		
(Supplemental VII) Stix, Gary, "Many Bands = Light Work,"	September 10,	Story on fiber optics, also mentions PBX
Computer Decisions, Volume 17,	1985	operations.
September 10, 1985, p. 92 (A21708015)	1900	operations.
(Supplemental VII)		
Press Release, Communications Daily,	July 31, 1985	Stories on Int'l Info Net's losses and
Volume 5, Number 148, July 31, 1985, p.	July 51, 1505	Zenith's pay-per-view operation.
7 (A21708033) repeated (A21724666)		20 mar o pay por view operation.
(Supplemental VII)		
"International Information Network	September 30,	Stories on Int'l Info Net's losses and
Earnings," PR Newswire, September 30,	1985	Zenith's pay-per-view operation.
1985 (A21708033) repeated		
(A21724666)		
(Supplemental VII)		
"International Information Sets Financing	October 22,	Stories on Int'l Info Net's losses and
Program," PR Newswire, October 22,	1985	Zenith's pay-per-view operation.
1985 (A21708034) repeated		
(A21724667)		
(Supplemental VII)		
Stoffels, Bob, "REA Takes its Show on	May 15, 1984	Story on small telephone companies.
the Road: Engineering and Management	·	
Seminars," Telephone Engineer &		
Management, Volume 88, May 15, 1984,		
p. 129 (A21708746)		
(Supplemental VII)		
"Strike Three," S. F. Progress, August 7,	August 7, 1985	News piece on Giants baseball.
1985 (A21706708)		
(Supplemental VII)		
Strom, David, "Telephone or MIS	February 17,	Story on problems of the digital switch
Managers: Who Flips the PBX Switch;	1987	(PBX).
Management and Use of New		
Communications Technology;		
Connectivity – Focus on LANs," PC		
Week, Volume 4, February 17, 1987, p.		
C1 (A21707798)		
(Supplemental VII)	Contombor 25	Stony on voice response symplical
Sullivan, Linda, "Ameritech Services	September 25,	Story on voice response suppliers.

Title of Article/Publication	<u>Date</u>	Comment
Signs Leading National Information	1989	
Provider as a Master Dealer," Business		
Wire, September 25, 1989 (A21724794)		
Susca, Paul, "Telemarketing: Reach Out	May 4, 1987	Story on ACDs, database and DNIS for
and Sell Someone," Network World, May		telemarketing.
4, 1987 (A21714122)		
(Supplemental VII)		
Swan, Gary E., "Gift to Kids Wasted if	unknown	News piece on baseball trivia and porn
Ballplayers Strike," San Francisco		operators.
Chronicle, Date Unknown (A21706673)		
(Supplemental VII)		
"System 85 Voice Messaging Due in '85,"	December	Story on AT&T's System 85 improvements,
Data Communications, December 1984,	1984	e.g. voice & data.
p. 204 (A21709005)		olg. Volue di data.
(Supplemental VII)		
Tagg, Ed, "Automating Operator-Assisted	March-April	Article from Speech Technology on using
Calls Using Voice Recognition," Speech	1988	voice recognition to automate operator
Technology, March-April 1988, pp. 22-25	.000	functions.
(Supplemental VII)		Tariotto.
Takahashi, Y., "Technique to Use	1981	Japanese or Chinese paper, apparently on
Chinese Letters for the On-Line System	1301	Chinese character conversion for
in Marketing Business," Packaging		telephone use.
Technology, Volume 19, Number 11,		telepriorie use.
1981 (A21724264)		
(Supplemental VII)		
Talmadge, Candace, "MetroCal Dumps	January 5,	Story on cellular company's change of
Richards for K-C," Adweek, January 5,	1987	agency.
1987 (A21707728)	1307	agency.
(Supplemental VII)		
"Tech Deals," Phillips Business	June 25, 1996	Story on Home Shopping license from
Information, Volume 7, Number 120,	00110 20, 1000	RAKTL.
June 25, 1996 (A01331382)		TOTAL.
(Supplemental VII)		
Telecommunication Technology, Volume	April 1986	Part of a Telecom article on PBXs, ATMs
4, Number 4, April 1986, p. 68	April 1900	and voice response.
(A21724070)		and voice response.
(Supplemental VII)		
"Teleguide' Network Gives Tourists the	April 1983	Article on "Teleguide", a Canadian system
Answers," ComputerData, April 1983	April 1903	to provide information, as on restaurants,
(A21724569)		etc. to individual terminals.
		etc. to individual terminals.
(Supplemental VII)	July 29, 1094	Nove pieces on 076 seen eners undetes
"Telephone Service Offers the Latest	July 28, 1984	News pieces on 976 soap opera updates
News on the Soaps," Augusta, GA		and voice messaging.
Chronicle-Herald, July 28, 1984		
(A21724626)		
(Supplemental VII)	Contember 20	"Tolophopy" ortiolog and add of
Telephony, September 29, 1980	September 29,	"Telephony" articles and ads of
(A21716447)	1980	questionable pertinence, e.g. telephone
(Supplemental VII)		features, fiber, data phone, WATS, legal,
"Took Varia Daarbell L. O. a. d. M. C.		voice mail.
"Test Your Baseball I. Q. and Win Four	unknown	News ad on baseball trivia game.
Tickets to All-Star Workout Day," Contra		

Title of Article/Publication	<u>Date</u>	Comment
Costa Times, Date Unknown		
(A21706787)		
(Supplemental VII)		
Tetschner, Walt, "PC-Based Voice	March-April	"Speech Technology" article on voice
Processing Software Tools," Speech	1988	processing.
Technology, March-April 1988, pp. 42-45		
(Supplemental VII)		
Tetschner, Walt, "The Voicetek VTK 90	March-April	New product piece on a voice computer.
Voice Computer," Speech Technology,	1987	
March-April 1987, pp. 102-106		
(Supplemental VII)		
"They've Got Your Number in AT&T's	February 1988	Story on ANI re telemarketing generally.
first Primary-Rate Test," Data	1 00.00.	Configuration and the continuous of governing
Communications, February 1988, p. 15		
(A21712494)		
(Supplemental VII)		
"Toshiba Telecom Introduces Universal	February 1984	Article on new Toshiba PBX systems.
Instrumentation for Entire Line of Key	1 ebidary 1904	Article of new Toshiba i BX systems.
and PBX Systems," Telecommunications		
Product Review, Volume 11, Number 2,		
February 1984 (A21708573)		
(Supplemental VII)		
"Tracking the Trucks," Network World,	September 5,	Story on Rolm voice mail for trucking co.
September 5, 1984, p. 55 (A21708897)	1984	Story of Rollin voice mail for trucking co.
(Supplemental VII)	1304	
Excerpt from Transportation Technology	1975	Apparently a Japanese article on telephone
(in Japanese), Volume 30, Number 7,	1975	interface.
1975 (A21725045)		interrace.
(Supplemental VII)		
"Trivia Promo Chips Away for Frito-Lay,"	Unknown	News piece on Frito-Lay telephone
Advertising Age, Date Unknown	Olikilowii	promotion.
(A21707650)		promotion.
(Supplemental VII)		
"Trivial Tickets," The Fort Wayne	August 11,	News piece on trivia baseball.
	1985	ivews piece on trivia baseball.
Journal-Gazette, August 11, 1985	1905	
(A21706713)		
(Supplemental VII)	August 6, 1094	Stant on telephonic facilities management
"Two Firms Introduce FMS Products,"	August 6, 1984	Story on telephonic facilities management.
Energy User News, Volume 9, August 6,		
1984, p. 12 (A21708848)		
(Supplemental VII)	October 45	Stant on MAY voice mail
Tyson, David O., "Voice Mail Technology	October 15,	Story on VMX voice mail.
Streamlines Bank Telephone Messaging	1986	
Services," The American Banker,		
October 15, 1986, p. 13 (A21706655)		
(Supplemental VII)	14	01
Upton, Molly, "No Clear Winner in War of	May 19, 1986	Story on email versus voice mail.
Mails," Computerworld, May 19, 1986, p.		
60 (A21708459)		
(Supplemental VII)	1000	***************************************
Vanandel, M. A., "While You're Away,	1988	"AT&T Technology" article on voice mail.
AUDIX Will Answer," AT&T Technology,	L	

Title of Article/Publication	<u>Date</u>	Comment
Volume 3, Number 3, 1988 (A21724808)		
(Supplemental VII)		
"Vendor Support Eases GOP Costs,"	August 27,	Story on AT&T's system for the LA summer
Computerworld, August 27, 1984	1984	Olympics.
(A21708865)		
(Supplemental VII)		
"View from Silicon Valley: Silicon Valley	May 8, 1984	Story on computer impact on telephone
Companies Battle for Advantage,		systems.
Compatibility," Communications Daily,		
Volume 4, Number 90, May 8, 1984, p. 1		
(A21708743)		
(Supplemental VII)		
Virzi, Robert A., "Skip and Scan	1992	Human factors in CIT.
Telephone Menus: User Performance as		
a Function of Experience," Proceedings		
of the Human Factors Society 36 <sup>th</sup>		
Annual Meeting-1992, p. 211-215		
(Supplemental VII)	1000	(F) (I) D
Vizcarrondo, John, et al., "HOBIS: New	January 1980	"Bell Record" article on hotel interfaces.
Designs on Hotel Billing," Bell		
Laboratories Record, January 1980		
(A21709392)		
(Supplemental VII) "VMX Announces InfoLink: New	lung 16 1007	Stony on VMY voice mail recording cortain
capability in Voice Messaging Arena,"	June 16, 1987	Story on VMX voice mail regarding certain capabilities.
Business Wire, June 16, 1987		Capabilities.
(A21714159)		
(Supplemental VII)		
"VMX/Honneywell; (VMXI) (HON) Take	September 3,	Story on voice mail (VMX); Story on
Voice Messaging 'Down Under' After	1986	"smart" buildings as with voice mail.
Signing Distribution/OEM Agreement for	.555	Since I demanded and with volve intain
Australia and Pacific Basin," Business		
Wire, September 3, 1986 (A21724699)		
repeated (A21706451)		
(Supplemental VII)		
"VMX, Inc. Adds Internal Revenue	February 8,	Story on VMX voice mail.
Service to Voice Message (SM) Users,"	1984	· ·
Southwest Newswire, February 8, 1984		
(A21708587)		
(Supplemental VII)		
"VMX, Inc. Announces Another Good	August 1, 1984	Story on VMX voice mail financial.
Quarter," Southwest Newswire, August 1,		
1984 (A21708846)		
(Supplemental VII)		
"VMX, Inc. Announces First Quarter	October 18,	Story on VMX voice mail markets.
Results," Southwest Newswire, October	1985	
18, 1985 (A21708063)		
(Supplemental VII)		
"VMX, Inc. Announces Landmark	June 1, 1984	Story on VMX voice mail regarding foreign
Approval of first Voice Message System		expansions.
in Japan," Southwest Newswire, June 1,		
1984 (A21708776)		

Title of Article/Publication	Date	Comment
(Supplemental VII)		
"VMX; (VMXI) AT&T Tops List of Seven	September 9,	Story on VMX voice mail licenses.
License Agreements Granted in Third	1986	•
Quarter," Business Wire, September 9,		
1986 (A21706457)		
(Supplemental VII)		
"VMX-Inc; (VMXI) Hosts First	July 18, 1986	Story on VMX voice mail seminar.
International Networking Seminar,"	·	
Business Wire, July 18, 1986		
(A21706345)		
(Supplemental VII)		
"VMX, Inc. Provides First Voice Message	December 11,	Story on VMX voice mail related to
(SM) Systems to Three Bell Operating	1984	customers.
Companies," Southwest Newswire,		
December 11, 1984 (A21709007)		
(Supplemental VII)		
"VMX, Inc. Releases Audited Fiscal 1984	August 7, 1984	Story on VMX stock.
Financials – It was a Very Good Year,"		
Southwest Newswire, August 7, 1984		
(A21708852)		
(Supplemental VII)		
"VMX; (VMXI) Voice Messaging Leader	October 7,	Story on new VMX streamlined product.
VMX, Inc. Launches New Generation	1986	
Technology with VMX(R) 5000 Series,"		
Business Wire, October 7, 1986		
(A21706650)		
(Supplemental VII)  "VMX; (VMXI) Voice Messaging Patent-	Contombor 15	Stony on VMV notonto
Holder VMX Inc. Moves into France after	September 15, 1986	Story on VMX patents.
	1900	
Signing Distribution Agreement with Jeumont-Schneider," Business Wire,		
September 15, 1986 (A21706459)		
(Supplemental VII)		
"VMX; (VMXI) VMX 5000 Series Voice	March 10, 1987	Story on VMX business.
Messaging System Scores High Sales	Walter 10, 1307	Otory off vivia business.
During First Quarter," Business Wire,		
March 10, 1987 (A21707862)		
(Supplemental VII)		
Press Release, Communications Daily,	October 26,	Story on VMX stock.
Volume 4, Number 209, October 26,	1984	
1984, p. 6 (A21708939)		
(Supplemental VII)		
Press Release, Computerworld, October	October 7,	Story on VMX operations generally.
7, 1985, p. 68 (A21708055)	1985	
(Supplemental VII)		
Press Release, PR Newswire, January	January 18,	Story on VMX financial.
18, 1984 (A21708570)	1984	
(Supplemental VII)		
Press Release, PR Newswire, April 10,	April 10, 1984	Story on VMX financial.
1984 (A21708655)	' '	
(Supplemental VII)		
Press Release, PR Newswire, October	October 16,	Story on VMX sales.

Title of Article/Publication	Date	Comment
16, 1984 (A21708935)	1984	Comment
(Supplemental VII)	1304	
Press Release, PR Newswire, January	January 24,	Story on VMX stock.
24, 1986 (A21708207)	1986	Story on vivix stock.
(Supplemental VII)	1900	
Voice Mail Brochure, Radio-Suisse Ltd.,	Unknown	Voice mail operating scripts.
Date Unknown (W70172)	Officiowii	voice mail operating scripts.
(Supplemental VII)	ļ	
"Voice Messaging Capability from VMX,"	October 1985	Story on VMX voice mail software.
The Magazine of Bank Management,	October 1905	Story on vivix voice mail software.
October 1985, p. 86 (A21708037)		
(Supplemental VII)		
Voice Processing International	July 1986	Announcement on voice processing
Conference Program, July 1986	July 1900	conference.
(A21723351)		Contenence.
(Supplemental VII)		
Voice Processing – The New Revolution,	July 1986	Proceedings of conference on voice
Proceedings of the International	July 1900	processing with many papers, see p. 41 on
Conference, July 1986 (A21722980)		interactive.
(Supplemental VII)		interactive.
"Voice '92," Conference Information and	1992	A group of publications on a conference on
Program, 1992 (W11651)	1332	voice applications.
(Supplemental VII)		voice applications:
"Voice System Tunes up Automaker's	November 12,	Story on VMX voice mail at Ford Motor
Communications," Computerworld,	1984	Citing on vivix voice man act ord wictor
November 12, 1984, p. 35 (A21708972)	1001	
(Supplemental VII)		
Press Release, Communications Daily,	June 6, 1984	Story on VMX in Japan.
Volume 4, Number 110, June 6, 1984, p.	, , , , , ,	
9 (A21708778)	•	
(Supplemental VII)		
"Votrax Announces Centrum 9000,	October 16,	Story of Votrax announcing new "Centrum"
Model 5," Source Unknown, October 16,	1987	model PBX.
1987 (A21724763)	1.55.	
(Supplemental VII)	:	
Waite, Andrew J., "Applying IVR	September	Articles on interactive planning installation
Systems," Inbound/Outbound,	1988	and available systems
September 1988, pp. 30-39 (A21725733)		,
(Supplemental VII)		
Walker, Murt, "CCS7 Offers New Paths	1991	AT&T Technology article on switch
to Revenue Generating Services,""AT&T		services.
Technology, Volume 6, Number 2, 1991,		
pp. 8-19 (A21713600)		
(Supplemental VII)		
Wallace, Bob, "All Voice Systems Are	September 14,	Story on Intercom's voice mail and others.
Not Alike," Network World, September	1987	
14, 1987 (A21712240)		
(Supplemental VII)		
Wallace, Bob, "Comnet '87; AT&T	February 16,	Story on AT&T's ISDN interface with
Announces ISDN Interface for System	1987	System 85 PBX.
85," February 16, 1987 (A21707796)		
(Supplemental VII)		
(Cappicinicital VII)	<u> </u>	

Title of Article/Publication	Date	Comment
Walters, R. E., et al., "Voice Processing	July 1990	British Telecom Engineering article on
Systems in British Telecom," British	'	voice processing includes recognition of
Telecommunications Engineering,		interactive operations.
Volume 9, July 1990, pp. 88-97		·
(Supplemental VII)		
Warner, Edward, "Bank's Speech	October 22,	Story on Boston bank's speech synthesis.
Synthesizers Greet Financiers' Calls with	1984	
Daily Balance," Computerworld, October		
22, 1984, p. 6 (A21708937)		
(Supplemental VII)		
Watt, Peggy, "Local Phone Companies	March 24, 1986	Story on local phone companies and voice
Eyeing Market for Voice Mail Services,"	1,1000	mail.
Computerworld, March 24, 1986, p. 23		Titali.
(A21708350)		
(Supplemental VII)		
Watt, Peggy, "Republicans Ready for	August 27,	Story on phone system for Republican
High-Tech: GOP Convention will Feature	1984	convention with voice mail, etc.
Voice Message System," InfoWorld,	1307	Convention with voice mail, etc.
August 27, 1984 (A21708862)		
(Supplemental VII)		
Weinstein, Bob, "Stock Exchange Gets	October 1988	"Inbound/Outbound" article on
News by Phone," Inbound/Outbound,	October 1900	
October 1988, pp. 39-46 (A21725744)		computerized stock reporting.
(Supplemental VII)	Navambar	"Inbound/Outbound" article on stock info.
Weinstein, Bob, "Stopping the Broker's	November 1988	Inbound/Outbound article on stock info.
Bottleneck," Inbound/Outbound,	1900	
November 1988, pp. 22-23 (A21725753)		
(Supplemental VII)		N
"West Interactive Settles with FDR:	November	News piece on West-FDR settlement.
Patent Suit Settlement Could Have major	1994	
Industry Impact," Enterprise		
Communications, November 1994		
(A01331040)		
(Supplemental VII)	1	1
Whalen, Bernie, "Marketers Expand	November 26,	News piece on "Dial-it" technology as for
Applications of Dial-It 900 Technology,"	1982	various promotions.
Marketing News, November 26, 1982		
(A21725861)		
(Supplemental VII)		
"What's An 'Automated' Attendant,"	July 1989	Article on call directors.
Inbound/Outbound, July 1989, pp. 40-42		
(A21724789)		
(Supplemental VII)		
"Whether to Answer the Phone," The	December 7,	News article anticipates programming
Washington Post, December 7, 1986	1986	terminals for call selectivity, ANI and coded
(A21707563)		rings.
(Supplemental VII)		
Whitten, W. B., "Advanced Interfaces	unknown	Article on AT&T's service management
Speed Delivery of Services," AT&T		system ass for call sorting, routing, etc.
Technologies, Volume 2, Number 3		
(A21707593)		
(Supplemental VII)	_	

Title of Article/Publication	Date	Comment
"Who Switches Data Along with Voice?	February 1987	Story on PBXs that integrate voice and
PBX Users, Increasingly," Data		data.
Communications, February 1987, p. 77		
(A21707751)		
(Supplemental VII)		
Wilpon, Jay G., et al., "Speech	October 1990	"AT&T Tech. Journal" article on speech
Recognition: From the Laboratory to the		recognition.
Real World," AT&T Technical Journal,		
September-October 1990, pp. 14-24		
(A21723481)		
(Supplemental VII)	0 1 1 00	
Wise, Deborah C. "This Computer Even	September 23,	News piece on AT&T exercise using
Deciphers Noo Yawk Talk," Business	1985	telephone interface to gather voice data as
Week, September 23, 1985, pp. 40-42		related to voice recognition, mentions
(A01354687)		Conversant and Fidelity
(Supplemental VII)	4000	Deal Whaties Communication Tall III and Communication
Witten, Ian H., "Making Computers Talk:	1986	Book "Making Computers Talk" section on
An Introduction to Speech Synthesis," Prentice-Hall, 1986 (A21708148)		speech recognition
(Supplemental VII)		
Wolfe, R. M., et al., "Telecommunications	May 1984	ATOT paper on stored program quitable re
Data Base Application with the 3B™20	Iviay 1904	AT&T paper on stored program switches re 800 calls, etc.
Processor," ISS '84 Florence, May 1984,		ooo cans, etc.
Session 22 A, Paper 2 (A21725518)		
(Supplemental VII)		
Wollenberg, Skip, "American Express	January 19,	Story on FDR and Katz re: interactive
Affiliate Plans Interactive Phone Service,"	1989	service.
The Associated Press, January 19, 1989	1000	
(A01331396)		
(Supplemental VII)		
Wong, Stephanie Lam, "Just a Phone	Unknown	News piece on Frito Lay promotion.
Call Away," San Francisco Chronicle,		
Date Unknown (A21707649)		
(Supplemental VII)		
Wood, Lamont, "Stretching the Workday;	December 2,	Story on voice mail and users.
Corporate Users Find that Voice Mail	1986	
Saves them Time in Transmitting		
Important Messages," Computer		
Decisions, Volume 18, December 2,		
1986, p. 44 (A21707561)		
(Supplemental VII)		
Wood, Lamont, "Will New Alliances	July 29, 1986	Story: computer manufacturers acquire
Forge Better Links? Private Branch		PBX vendors.
Exchange Vendors Merge with Computer		
Firms," Computer Decisions, Volume 18,		
July 29, 1986, p. 40 (A21706353)		
(Supplemental VII)	   Main   None   4000	From the "Dell Court Louise" ATOT
Worrall, D. P., "New Custom Calling	May-June 1982	From the "Bell South Journal" AT&T paper
Services," The Bell System Technical		on custom calling services, e.g. call
Journal, Volume 61, Number 5, May-		waiting, call forwarding, conferencing,
June 1982 pp. 821-839 (A21725897)		message taking, answering, and remote
(Supplemental VII)	<u> </u>	access

Title of Article/Publication	Date	Comment
"Worthwhile Trivia," The New York	Unknown	News piece on baseball trivia
Times, Date Unknown (A21706711)		
(Supplemental VII)		
"Yes! Songs For You," Advertisement,	Unknown	Ad for send a song
Source Unknown (W73764)		
(Supplemental VII)		
Youngs, E. A., "The Changing Role of	June 1983	Helsinki symposium on human factors in
Human Factors Work Supporting New		telecom – trends and projects.
Telecommunications Products and		, ,
Service," Proceedings of the Tenth		
International Symposium on Human		
Factors in Telecommunications, June		
1983 (A21725809)		
(Supplemental VII)		
Youngs, E. A., "Effects of Automating	September	Paper on the effects of automated services
Operator Services on Customers and	1977	and the future.
Operators," Proceedings of the Eighth		
International Symposium on Human		
Factors in Telecommunications,"		
September 1977, pp. 251-255		
(A21725776)		
(Supplemental VII)		2 7 11
"Zenith; Centel Plans Zenith Phonevision	December 5,	Story on Zenith pay-per-view
Pay-Per-View Cable TV System,"	1985	
Business Wire, December 5, 1985		
(A21708105)		
(Supplemental VII) Zeno, Charlie, "Trivia Buff's Special Party	unknown	Nove piece on banchall trivia
for 678 Kids," Contra Costa Times, Date	unknown	News piece on baseball trivia
Unknown (A21706788)		
(Supplemental VII)		
Zuckerman, Steve, "Ogilvy &	September 8,	News piece on Ogilvy and Mather ad
Mather/Dallas Looks for Partner to Go	1986	agency
After Bigger Accounts," Dallas Business	1550	agono,
Courier, Volume 2, Number 21, Section		
1, September 8, 1986, p. 12		
(A21706454)		
, ,		
(Supplemental VII)		

From the documents listed above, the following examples are isolated and briefly discussed to indicate the extent of interest that they may have to Applicant's claims. For the Examiner's convenience, copies of these documents were provided previously (for U.S. Serial No. 306,456).

## **DOCUMENTS:**

1. "AT&T's Flagship System 75: A Comprehensive Analysis of the System 85's 'Little Cousin,'" Telecommunications Product Review, Volume 11, Number 7, July 1984 (A21724612) (Supplemental VII)

The article reveals features of AT&T's "most technically sophisticated" switch for terminal support. The switch has: stored program control, "voice" capability, digital switching, queuing control, etc. However, the switch falls for short suggesting the interface functions and capabilities as claimed by the Katz patents.

2. AT&T Technical Journal – The 5ESS Switching System, Volume 64, Number 6, Part 2, July-August 1985 (A21723626) (Supplemental VII)

The AT&T Technical Journal for July-August (see Contents pp. 1303 – herewith) was dedicated to the 5ESS Switching System, and consisted of several papers on the unit. Most of the papers are directed to the switch per se and accordingly are of no interest here. However, some of the papers could be of some interest and copies are provided. Operational Software (pp. 1357-1384) Data base management is explained (pp. 1364) along with administrative services (pp. 1375). Accordingly, capabilities to collect and process data are revealed, the paper does not suggest specific functions or capabilities as would be pertinent to the Katz claims. Hardware Design (pp. 1417-1437) The paper explains messaging capability and subscriber interface, however, again there are no suggestions beyond broad statements of capability in relation to telephonic interface systems.

3. Greene, James E., et al., "Voice Response System Sticks to the Script and Saves Time, Money and Tempers for University Students and Administrators," Communication Age, January 1986 (A21724080) (Supplemental VII)

The article describes a 1985 telephonic course at the Georgia State University. Although the Operation was historically of interest to computer telephone interface operations, it was only one step beyond information retrieval. However, information was received, acknowledged, and stored.

4. "'Teleguide' Network Gives Tourists the Answers," ComputerData, April 1983 (A21724569) (Supplemental VII)

Article describing an information retrieval system implemented in Canada in the early eighties. Using CRT terminals to receive tourist information. Although the system is interactive, it is distinct as performing merely information retrieval functions.

### **U.S. PATENTS:**

5. U.S. Patent No. 4,799,255 to Billinger et al (Supplemental VA) (filed January 30, 1987, issued January 17, 1989)

As used, ANI is not a consumable key for accessing, but rather an identification to count "bad" attempts to access from a telephone requiring an access code. The system fits the category of tallying "bad tries" to a limit, then restricting the path. The calling number (ANI) as tallied, is not to

control access in the manner of consumable key, but rather is used merely to identify the source of calls failing to identify a valid authorization code (C 3, L 38) when such a code is needed for access (C 7, L 42).

6. U.S. Patent No. 5,148,474 to Haralambopoulos et al. (Supplemental VA) (filed August 21, 1991, issued September 15, 1992)

The reference discloses a system for telephonically serving callers with information displayed from a memory to an operator, as a medical technician at a facility where the caller is a patient (C 4, L 39). Essentially, the system interfaces the patient preliminarily to gain identification to fetch and display data for the technician. Alternately, the call is terminated or given to a receptionist (C 4, L 38). In view of the priority data and the substance of applicant's claims, the disclosure is of no pertinence.

### **FOREIGN PATENTS:**

7. PN: 217,308, GD: 12/12/1990, EPA (Specification) (Supplemental VI)

Sept. 30, 1985 (U.S. 781895) The EPO specification discloses a pay-per-view system using telephonic interface, however, which is distinct by reason of not using a network connection to a vendor of the service (see Col. 10, lines 15-23).

8. EP 0 382 670 B1 (Supplemental VA) (published August 16, 1990)

Although the system discloses a state machine, the states (see C 5, L 30) and their functions are quite distinct from applicant's claimed systems involving status registers to control audio recording.

#### CHART C (SUPPLEMENTAL VIII)

Title of Article/Publication	<u>Date</u>	Comment
Complete Issue of Bell Labs News,	September 30,	Article on speech processing in Conversant
Volume 25, Number 36, September 30,	1985	Systems and other unrelated articles
1985 (A21724662)		
(Supplemental VIII)		
Complete Issue of Bell Labs News,	August 18,	Article describes how Dial-a-View tests
Volume 26, Number 31, August 18, 1986	1986	ANI, but no accessing, voice cues, PIN,
(A21706398)		etc.
(Supplemental VIII)		
Complete Issue of Bell Labs News,	August 17,	Article describes calls by credit card in
Volume 27, Number 33, August 17, 1989	1989	which the caller dials in the card number
(A21710741)		
(Supplemental VIII)		
Bell of Pennsylvania Press Release,	March 13, 1984	News release on caller selection by

Title of Article/Publication	Date	Comment
March 13, 1984 (A21725876) (Supplemental VIII)		customer to obtain incoming call control and as call rejection, distinctive ringing, caller i.d., etc.
Dorros, Irwin et al., "Reaching into the Future with Stored Program Control," Bell Laboratories Record, December 1980, pp. 387-393 (A21710507) (Supplemental VIII)	December 1980	AT&T article on stored program controlled network as for: messages, credit verification, automatic and routing
Complete Issue of Voice News, Volume 4, Number 9, October 1984 (A21708913) (Supplemental VIII)	October 1984	Voice mail newsletter mentions new voice related developments and products, customers and courses
Complete Issue of Voice News, Volume 6, Number 7, July/August 1986 (A21706303) (Supplemental VIII)	July/August 1986	Voice mail newsletter mentions new voice related developments and products, applications, customers, courses and markets
Complete Issue of Voice News, Volume 7, Number 2, February 1987 (A21707730) (Supplemental VIII)	February 1987	Voice mail newsletter on speech recognition and vocabulary plus a piece on AT&T board for answering machine use and an AT&T speech card, plus other voice related equipment and business notes
Complete Issue of Voice News, Volume 7, Number 3, March 1987 (A21707834) (Supplemental VIII)	March 1987	Voice mail newsletter mentions developments and products related to voice mail operations, along with business considerations
Complete Issue of Voice News, Volume 7, Number 5, May 1987 (A21714110) (Supplemental VIII)	May 1987	Voice mail newsletter regarding voice mail and speech related developments and products, applications and business related news
Complete Issue of Voice News, Volume 7, Number 10, October 1987 (A21724749) (Supplemental VIII)	October 1987	Voice mail newsletter relating to Dytel patent, call answer and cue, number translation, routing and greetings. Also, letter mentions new voice mail related products and developments, business and legal news

Applicant has also provided a copy of the invalidity contentions (in U.S. Serial No. 08/306,456) urged during litigation by defendant American Transtech in Suit II. These contentions were previously designated as confidential and only by a Judge's ruling issued during the first week of January, 2001, were released for consideration by Applicant's prosecution counsel. An additional document on AT&T's network communications that Applicant's prosecution counsel came across

was also cited on another Form PTO-1449 (designated as Supplemental IX, see U.S. Serial No. 08/306,456).

# **CONCLUSION**

The items identified in this Information Disclosure Statement may or may not be "material" pursuant to 37 CFR § 1.56. The submission of these documents by Applicant should not be construed as an admission that any such patent, publication or other information referred to in these documents is material or considered to be material (37 CFR § 1.97(h)), or even qualifies as "prior art" under 35 USC § 102 with respect to this invention, unless specifically designated by Applicant as such.

The filing of this Information Disclosure Statement should not be construed to mean that a search has been made or that no other material information, as defined in 37 CFR § 1.56, exists.

This Information Disclosure Statement is being filed in accordance with 37 CFR §§ 1.97(c) and 1.98. This IDS is being filed after an action on the merits but before a Final Action under § 1.113 or a Notice of Allowance under § 1.311. A check in the amount of \$180.00 to cover the fee pursuant 37 C.F.R. 1.17(p) is enclosed. The Examiner is hereby authorized to charge any deficiencies or any additional fee required by this paper to A2D, L.P.'s Deposit Account No. 50-1636.

D-4-4.

Dated:

By:

Reena Kuyper Reg. No. 33,830

Respectfully submitted,

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